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| [Link to full record for micrograph 1](https://www.doitpoms.ac.uk/miclib/full_record.php?id=1) | | [Micrograph 1](https://www.doitpoms.ac.uk/miclib/full_record.php?id=1) : Al 75, Cu 25 (wt%), hypoeutectic alloy System: Al-Cu, Composition: Al 75, Cu 25 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 2](https://www.doitpoms.ac.uk/miclib/full_record.php?id=2) | | [Micrograph 2](https://www.doitpoms.ac.uk/miclib/full_record.php?id=2) : Al 75, Cu 25 (wt%), hypoeutectic alloy System: Al-Cu, Composition: Al 75, Cu 25 (wt%)  Scanning electron microscopy (SEM) 30 μm |
| [Link to full record for micrograph 3](https://www.doitpoms.ac.uk/miclib/full_record.php?id=3) | | [Micrograph 3](https://www.doitpoms.ac.uk/miclib/full_record.php?id=3) : Al 67, Cu 33 (wt%), eutectic alloy System: Al-Cu, Composition: Al 67, Cu 33 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 4](https://www.doitpoms.ac.uk/miclib/full_record.php?id=4) | | [Micrograph 4](https://www.doitpoms.ac.uk/miclib/full_record.php?id=4) : Al 67, Cu 33 (wt%), eutectic alloy System: Al-Cu, Composition: Al 67, Cu 33 (wt%)  Scanning electron microscopy (SEM) 15 μm |
| [Link to full record for micrograph 5](https://www.doitpoms.ac.uk/miclib/full_record.php?id=5) | | [Micrograph 5](https://www.doitpoms.ac.uk/miclib/full_record.php?id=5) : Al 64, Cu 36 (wt%), hypereutectic alloy System: Al-Cu, Composition: Al 64, Cu 36 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 6](https://www.doitpoms.ac.uk/miclib/full_record.php?id=6) | | [Micrograph 6](https://www.doitpoms.ac.uk/miclib/full_record.php?id=6) : Bi 60, Cd 40 (wt%), eutectic alloy System: Bi-Cd, Composition: Bi 60, Cd 40 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 7](https://www.doitpoms.ac.uk/miclib/full_record.php?id=7) | | [Micrograph 7](https://www.doitpoms.ac.uk/miclib/full_record.php?id=7) : Bi 60, Cd 40 (wt%), eutectic alloy System: Bi-Cd, Composition: Bi 60, Cd 40 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 8](https://www.doitpoms.ac.uk/miclib/full_record.php?id=8) | | [Micrograph 8](https://www.doitpoms.ac.uk/miclib/full_record.php?id=8) : Bi 80, Cd 20 (wt%), hypereutectic alloy System: Bi-Cd, Composition: Bi 80, Cd 20 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 9](https://www.doitpoms.ac.uk/miclib/full_record.php?id=9) | | [Micrograph 9](https://www.doitpoms.ac.uk/miclib/full_record.php?id=9) : Bi 80, Cd 20 (wt%), hypereutectic alloy System: Bi-Cd, Composition: Bi 80, Cd 20 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 10](https://www.doitpoms.ac.uk/miclib/full_record.php?id=10) | | [Micrograph 10](https://www.doitpoms.ac.uk/miclib/full_record.php?id=10) : Cu 70, Ni 30 (wt%), cored dendrites System: Cu-Ni, Composition: Cu 70, Ni 30 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 11](https://www.doitpoms.ac.uk/miclib/full_record.php?id=11) | | [Micrograph 11](https://www.doitpoms.ac.uk/miclib/full_record.php?id=11) : Cu 70, Ni 30 (wt%), cored dendrites System: Cu-Ni, Composition: Cu 70, Ni 30 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 12](https://www.doitpoms.ac.uk/miclib/full_record.php?id=12) | | [Micrograph 12](https://www.doitpoms.ac.uk/miclib/full_record.php?id=12) : Cu 21, Sn 79 (wt%), peritectic transformation System: Cu-Sn, Composition: Cu 21, Sn 79 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 13](https://www.doitpoms.ac.uk/miclib/full_record.php?id=13) | | [Micrograph 13](https://www.doitpoms.ac.uk/miclib/full_record.php?id=13) : Cu 21, Sn 79 (wt%), peritectic transformation System: Cu-Sn, Composition: Cu 21, Sn 79 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 14](https://www.doitpoms.ac.uk/miclib/full_record.php?id=14) | | [Micrograph 14](https://www.doitpoms.ac.uk/miclib/full_record.php?id=14) : Fe, C 0.8 (wt%), eutectoid transformation - pearlite (coarse) System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 15](https://www.doitpoms.ac.uk/miclib/full_record.php?id=15) | | [Micrograph 15](https://www.doitpoms.ac.uk/miclib/full_record.php?id=15) : Fe, C 0.8 (wt%), eutectoid transformation - pearlite (coarse) System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 16](https://www.doitpoms.ac.uk/miclib/full_record.php?id=16) | | [Micrograph 16](https://www.doitpoms.ac.uk/miclib/full_record.php?id=16) : Fe, C 0.8 (wt%), eutectoid transformation - pearlite (coarse) System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 17](https://www.doitpoms.ac.uk/miclib/full_record.php?id=17) | | [Micrograph 17](https://www.doitpoms.ac.uk/miclib/full_record.php?id=17) : Fe, C 0.1 (wt%), hypoeutectoid alloy System: Fe-C-X, Composition: Fe, C 0.1 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 18](https://www.doitpoms.ac.uk/miclib/full_record.php?id=18) | | [Micrograph 18](https://www.doitpoms.ac.uk/miclib/full_record.php?id=18) : Fe, C 0.1 (wt%), hypoeutectoid alloy System: Fe-C-X, Composition: Fe, C 0.1 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 19](https://www.doitpoms.ac.uk/miclib/full_record.php?id=19) | | [Micrograph 19](https://www.doitpoms.ac.uk/miclib/full_record.php?id=19) : Fe, C 0.1 (wt%), hypoeutectoid alloy System: Fe-C-X, Composition: Fe, C 0.1 (wt%)  Scanning electron microscopy (SEM) 30 μm |
| [Link to full record for micrograph 20](https://www.doitpoms.ac.uk/miclib/full_record.php?id=20) | | [Micrograph 20](https://www.doitpoms.ac.uk/miclib/full_record.php?id=20) : Fe, C 0.1 (wt%), hypoeutectoid alloy System: Fe-C-X, Composition: Fe, C 0.1 (wt%)  Scanning electron microscopy (SEM) 10 μm |
| [Link to full record for micrograph 21](https://www.doitpoms.ac.uk/miclib/full_record.php?id=21) | | [Micrograph 21](https://www.doitpoms.ac.uk/miclib/full_record.php?id=21) : Fe, C 1.0 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 22](https://www.doitpoms.ac.uk/miclib/full_record.php?id=22) | | [Micrograph 22](https://www.doitpoms.ac.uk/miclib/full_record.php?id=22) : Fe, C 1.0 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 23](https://www.doitpoms.ac.uk/miclib/full_record.php?id=23) | | [Micrograph 23](https://www.doitpoms.ac.uk/miclib/full_record.php?id=23) : Fe, C 1.0 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Scanning electron microscopy (SEM) 50 μm |
| [Link to full record for micrograph 24](https://www.doitpoms.ac.uk/miclib/full_record.php?id=24) | | [Micrograph 24](https://www.doitpoms.ac.uk/miclib/full_record.php?id=24) : Fe, C 1.0 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Scanning electron microscopy (SEM) 10 μm |
| [Link to full record for micrograph 25](https://www.doitpoms.ac.uk/miclib/full_record.php?id=25) | | [Micrograph 25](https://www.doitpoms.ac.uk/miclib/full_record.php?id=25) : Fe, C 0.85 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 0.85 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 26](https://www.doitpoms.ac.uk/miclib/full_record.php?id=26) | | [Micrograph 26](https://www.doitpoms.ac.uk/miclib/full_record.php?id=26) : Fe, C 0.85 (wt%), hypereutectoid alloy System: Fe-C-X, Composition: Fe, C 0.85 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 27](https://www.doitpoms.ac.uk/miclib/full_record.php?id=27) | | [Micrograph 27](https://www.doitpoms.ac.uk/miclib/full_record.php?id=27) : Fe, C 0.9 (wt%), martensite System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 28](https://www.doitpoms.ac.uk/miclib/full_record.php?id=28) | | [Micrograph 28](https://www.doitpoms.ac.uk/miclib/full_record.php?id=28) : Fe, C 0.9 (wt%), martensite System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Scanning electron microscopy (SEM) 10 μm |
| [Link to full record for micrograph 29](https://www.doitpoms.ac.uk/miclib/full_record.php?id=29) | | [Micrograph 29](https://www.doitpoms.ac.uk/miclib/full_record.php?id=29) : Cu 70, Zn 30 (wt%), annealed and cold rolled System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 30](https://www.doitpoms.ac.uk/miclib/full_record.php?id=30) | | [Micrograph 30](https://www.doitpoms.ac.uk/miclib/full_record.php?id=30) : Cu 70, Zn 30 (wt%), annealed and cold rolled System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 31](https://www.doitpoms.ac.uk/miclib/full_record.php?id=31) | | [Micrograph 31](https://www.doitpoms.ac.uk/miclib/full_record.php?id=31) : Cu 70, Zn 30 (wt%), partial recrystallisation - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 32](https://www.doitpoms.ac.uk/miclib/full_record.php?id=32) | | [Micrograph 32](https://www.doitpoms.ac.uk/miclib/full_record.php?id=32) : Cu 70, Zn 30 (wt%), partial recrystallisation - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 33](https://www.doitpoms.ac.uk/miclib/full_record.php?id=33) | | [Micrograph 33](https://www.doitpoms.ac.uk/miclib/full_record.php?id=33) : Cu 70, Zn 30 (wt%), partial recrystallisation - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 34](https://www.doitpoms.ac.uk/miclib/full_record.php?id=34) | | [Micrograph 34](https://www.doitpoms.ac.uk/miclib/full_record.php?id=34) : Cu 70, Zn 30 (wt%), partial recrystallisation - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 35](https://www.doitpoms.ac.uk/miclib/full_record.php?id=35) | | [Micrograph 35](https://www.doitpoms.ac.uk/miclib/full_record.php?id=35) : Cu 70, Zn 30 (wt%), faster recrystallisation - finer grain size System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 36](https://www.doitpoms.ac.uk/miclib/full_record.php?id=36) | | [Micrograph 36](https://www.doitpoms.ac.uk/miclib/full_record.php?id=36) : Cu 60, Zn 40 (wt%), quenched - metastable b grains System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 37](https://www.doitpoms.ac.uk/miclib/full_record.php?id=37) | | [Micrograph 37](https://www.doitpoms.ac.uk/miclib/full_record.php?id=37) : Cu 70, Zn 30 (wt%), slow cooling - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 38](https://www.doitpoms.ac.uk/miclib/full_record.php?id=38) | | [Micrograph 38](https://www.doitpoms.ac.uk/miclib/full_record.php?id=38) : Cu 98, Be 2 (wt%), slow cooling - annealing twins System: Cu-Be, Composition: Cu 98, Be 2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 39](https://www.doitpoms.ac.uk/miclib/full_record.php?id=39) | | [Micrograph 39](https://www.doitpoms.ac.uk/miclib/full_record.php?id=39) : Cu 98, Be 2 (wt%), quenched and aged - annealing twins System: Cu-Be, Composition: Cu 98, Be 2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 40](https://www.doitpoms.ac.uk/miclib/full_record.php?id=40) | | [Micrograph 40](https://www.doitpoms.ac.uk/miclib/full_record.php?id=40) : Cu 98, Be 2 (wt%), quenched and aged - annealing twins System: Cu-Be, Composition: Cu 98, Be 2 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 41](https://www.doitpoms.ac.uk/miclib/full_record.php?id=41) | | [Micrograph 41](https://www.doitpoms.ac.uk/miclib/full_record.php?id=41) : Zn, cold rolled - mechanical twins System: Zn, Composition: Not specified  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 42](https://www.doitpoms.ac.uk/miclib/full_record.php?id=42) | | [Micrograph 42](https://www.doitpoms.ac.uk/miclib/full_record.php?id=42) : Zn, cold rolled - mechanical twins System: Zn, Composition: Not specified  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 43](https://www.doitpoms.ac.uk/miclib/full_record.php?id=43) | | [Micrograph 43](https://www.doitpoms.ac.uk/miclib/full_record.php?id=43) : Fe, C 0.2 (wt%), explosively deformed - mechanical twins System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 44](https://www.doitpoms.ac.uk/miclib/full_record.php?id=44) | | [Micrograph 44](https://www.doitpoms.ac.uk/miclib/full_record.php?id=44) : Fe, C 0.2 (wt%), explosively deformed - mechanical twins System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 45](https://www.doitpoms.ac.uk/miclib/full_record.php?id=45) | | [Micrograph 45](https://www.doitpoms.ac.uk/miclib/full_record.php?id=45) : Fe, Ni 30, C 0.3 (wt%), quenched - martensite plates System: Fe-C-X, Composition: Fe, C 0.3, Ni 30 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 46](https://www.doitpoms.ac.uk/miclib/full_record.php?id=46) | | [Micrograph 46](https://www.doitpoms.ac.uk/miclib/full_record.php?id=46) : Fe, Ni 30, C 0.3 (wt%), quenched - martensite plates System: Fe-C-X, Composition: Fe, C 0.3, Ni 30 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 47](https://www.doitpoms.ac.uk/miclib/full_record.php?id=47) | | [Micrograph 47](https://www.doitpoms.ac.uk/miclib/full_record.php?id=47) : Al 95, Cu 5 (wt%), microsegregation - cored dendrites System: Al-Cu, Composition: Al 95, Cu 5 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 48](https://www.doitpoms.ac.uk/miclib/full_record.php?id=48) | | [Micrograph 48](https://www.doitpoms.ac.uk/miclib/full_record.php?id=48) : Al 95, Cu 5 (wt%), microsegregation - cored dendrites System: Al-Cu, Composition: Al 95, Cu 5 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 49](https://www.doitpoms.ac.uk/miclib/full_record.php?id=49) | | [Micrograph 49](https://www.doitpoms.ac.uk/miclib/full_record.php?id=49) : Cu 60, Zn 40 (wt%), slow cooling - equiaxed grains System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 50](https://www.doitpoms.ac.uk/miclib/full_record.php?id=50) | | [Micrograph 50](https://www.doitpoms.ac.uk/miclib/full_record.php?id=50) : Cu 60, Zn 40 (wt%), slow cooling - equiaxed grains System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 51](https://www.doitpoms.ac.uk/miclib/full_record.php?id=51) | | [Micrograph 51](https://www.doitpoms.ac.uk/miclib/full_record.php?id=51) : Cu 60, Zn 40 (wt%), air cooled - WidmanstÃ¤tten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 52](https://www.doitpoms.ac.uk/miclib/full_record.php?id=52) | | [Micrograph 52](https://www.doitpoms.ac.uk/miclib/full_record.php?id=52) : Cu 60, Zn 40 (wt%), air cooled - WidmanstÃ¤tten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 53](https://www.doitpoms.ac.uk/miclib/full_record.php?id=53) | | [Micrograph 53](https://www.doitpoms.ac.uk/miclib/full_record.php?id=53) : Cu 60, Zn 40 (wt%), quenched and held at 300Â°C - WidmanstÃ¤tten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Scanning electron microscopy (SEM) 15 μm |
| [Link to full record for micrograph 54](https://www.doitpoms.ac.uk/miclib/full_record.php?id=54) | | [Micrograph 54](https://www.doitpoms.ac.uk/miclib/full_record.php?id=54) : Ti, Al 6, V 4 (wt%), Widmanstätten microstructure System: Ti-Al-V, Composition: Ti, Al 6, V 4 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 55](https://www.doitpoms.ac.uk/miclib/full_record.php?id=55) | | [Micrograph 55](https://www.doitpoms.ac.uk/miclib/full_record.php?id=55) : Ti, Al 6, V 4 (wt%), WidmanstÃ¤tten microstructure System: Ti-Al-V, Composition: Ti, Al 6, V 4 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 56](https://www.doitpoms.ac.uk/miclib/full_record.php?id=56) | | [Micrograph 56](https://www.doitpoms.ac.uk/miclib/full_record.php?id=56) : Al 96, Cu 4 (wt%), solution treated and overaged - precipitation hardening System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 57](https://www.doitpoms.ac.uk/miclib/full_record.php?id=57) | | [Micrograph 57](https://www.doitpoms.ac.uk/miclib/full_record.php?id=57) : Al 96, Cu 4 (wt%), solution treated and overaged - precipitation hardening System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 58](https://www.doitpoms.ac.uk/miclib/full_record.php?id=58) | | [Micrograph 58](https://www.doitpoms.ac.uk/miclib/full_record.php?id=58) : Al 88, Si 12 (wt%), eutectic alloy System: Al-Si, Composition: Al 88, Si 12 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 59](https://www.doitpoms.ac.uk/miclib/full_record.php?id=59) | | [Micrograph 59](https://www.doitpoms.ac.uk/miclib/full_record.php?id=59) : Al 88, Si 12 (wt%), eutectic alloy System: Al-Si, Composition: Al 88, Si 12 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 60](https://www.doitpoms.ac.uk/miclib/full_record.php?id=60) | | [Micrograph 60](https://www.doitpoms.ac.uk/miclib/full_record.php?id=60) : Al, Si 12, Na 0.02 (wt%), eutectic alloy - refined microstructure System: Al-Si-Na, Composition: Al, Si 12, Na 0.02 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 61](https://www.doitpoms.ac.uk/miclib/full_record.php?id=61) | | [Micrograph 61](https://www.doitpoms.ac.uk/miclib/full_record.php?id=61) : Al, Si 12, Na 0.02 (wt%), eutectic alloy - refined microstructure System: Al-Si-Na, Composition: Al, Si 12, Na 0.02 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 62](https://www.doitpoms.ac.uk/miclib/full_record.php?id=62) | | [Micrograph 62](https://www.doitpoms.ac.uk/miclib/full_record.php?id=62) : Fe, C 3.6, Si 2.1 (wt%), hypereutectic grey cast iron System: Fe-C-X, Composition: Fe, C 3.6, Si 2.1 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 63](https://www.doitpoms.ac.uk/miclib/full_record.php?id=63) | | [Micrograph 63](https://www.doitpoms.ac.uk/miclib/full_record.php?id=63) : Fe, C 3.6, Si 2.1 (wt%), hypereutectic grey cast iron System: Fe-C-X, Composition: Fe, C 3.6, Si 2.1 (wt%)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 64](https://www.doitpoms.ac.uk/miclib/full_record.php?id=64) | | [Micrograph 64](https://www.doitpoms.ac.uk/miclib/full_record.php?id=64) : Fe, C 3.6, Si 2.1, Mg 0.07 (wt%), spheroidal graphite System: Fe-C-X, Composition: Fe, C 3.6, Si 2.1, Mg 0.07 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 65](https://www.doitpoms.ac.uk/miclib/full_record.php?id=65) | | [Micrograph 65](https://www.doitpoms.ac.uk/miclib/full_record.php?id=65) : Fe, C 3.6, Si 2.1, Mg 0.07 (wt%), spheroidal graphite System: Fe-C-X, Composition: Fe, C 3.6, Si 2.1, Mg 0.07 (wt%)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 66](https://www.doitpoms.ac.uk/miclib/full_record.php?id=66) | | [Micrograph 66](https://www.doitpoms.ac.uk/miclib/full_record.php?id=66) : Hypoeutectic white cast iron System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 67](https://www.doitpoms.ac.uk/miclib/full_record.php?id=67) | | [Micrograph 67](https://www.doitpoms.ac.uk/miclib/full_record.php?id=67) : Hypoeutectic white cast iron System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 68](https://www.doitpoms.ac.uk/miclib/full_record.php?id=68) | | [Micrograph 68](https://www.doitpoms.ac.uk/miclib/full_record.php?id=68) : Grey cast iron core with white cast iron periphery System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 69](https://www.doitpoms.ac.uk/miclib/full_record.php?id=69) | | [Micrograph 69](https://www.doitpoms.ac.uk/miclib/full_record.php?id=69) : Grey cast iron core with white cast iron periphery System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 40 μm |
| [Link to full record for micrograph 70](https://www.doitpoms.ac.uk/miclib/full_record.php?id=70) | | [Micrograph 70](https://www.doitpoms.ac.uk/miclib/full_record.php?id=70) : Silal System: Fe-C-X, Composition: Fe, C 3.0, Si 6, Mn 0.7, P 0.3, S 0.1 (wt% typical) (Silal)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 71](https://www.doitpoms.ac.uk/miclib/full_record.php?id=71) | | [Micrograph 71](https://www.doitpoms.ac.uk/miclib/full_record.php?id=71) : Silal System: Fe-C-X, Composition: Fe, C 3.0, Si 6, Mn 0.7, P 0.3, S 0.1 (wt% typical) (Silal)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 72](https://www.doitpoms.ac.uk/miclib/full_record.php?id=72) | | [Micrograph 72](https://www.doitpoms.ac.uk/miclib/full_record.php?id=72) : Ni-hard iron System: Fe-C-X, Composition: Fe, C 2.8, Ni 4.5, Mn 1.2, Cr 0.75, Si 0.5, P 0.3, Mo 0.25, S 0.1 (wt% typical) (Ni-hard iron)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 73](https://www.doitpoms.ac.uk/miclib/full_record.php?id=73) | | [Micrograph 73](https://www.doitpoms.ac.uk/miclib/full_record.php?id=73) : Ni-hard iron System: Fe-C-X, Composition: Fe, C 2.8, Ni 4.5, Mn 1.2, Cr 0.75, Si 0.5, P 0.3, Mo 0.25, S 0.1 (wt% typical) (Ni-hard iron)  Reflected light microscopy 80 μm |
| [Link to full record for micrograph 75](https://www.doitpoms.ac.uk/miclib/full_record.php?id=75) | | [Micrograph 75](https://www.doitpoms.ac.uk/miclib/full_record.php?id=75) : Notched zinc, broken by impact at room temperature System: Zn, Composition: Notched zinc  Scanning electron microscopy (SEM) 1 mm |
| [Link to full record for micrograph 76](https://www.doitpoms.ac.uk/miclib/full_record.php?id=76) | | [Micrograph 76](https://www.doitpoms.ac.uk/miclib/full_record.php?id=76) : Notched zinc, broken by impact at room temperature System: Zn, Composition: Notched zinc  Scanning electron microscopy (SEM) 160 μm |
| [Link to full record for micrograph 78](https://www.doitpoms.ac.uk/miclib/full_record.php?id=78) | | [Micrograph 78](https://www.doitpoms.ac.uk/miclib/full_record.php?id=78) : Forging steel, brittle, intergranular fracture System: Fe-C-X, Composition: Forging steel  Scanning electron microscopy (SEM) 800 μm |
| [Link to full record for micrograph 79](https://www.doitpoms.ac.uk/miclib/full_record.php?id=79) | | [Micrograph 79](https://www.doitpoms.ac.uk/miclib/full_record.php?id=79) : Ni-superalloy, fatigue crack propagation System: Ni-X, Composition: Not specified (Ni-Superalloy)  Scanning electron microscopy (SEM) 150 μm |
| [Link to full record for micrograph 80](https://www.doitpoms.ac.uk/miclib/full_record.php?id=80) | | [Micrograph 80](https://www.doitpoms.ac.uk/miclib/full_record.php?id=80) : Ni-superalloy, fatigue crack propagation System: Ni-X, Composition: Not specified (Ni-Superalloy)  Scanning electron microscopy (SEM) 80 μm |
| [Link to full record for micrograph 81](https://www.doitpoms.ac.uk/miclib/full_record.php?id=81) | | [Micrograph 81](https://www.doitpoms.ac.uk/miclib/full_record.php?id=81) : Ni-superalloy, fatigue crack propagation System: Ni-X, Composition: Not specified (Ni-Superalloy)  Scanning electron microscopy (SEM) 30 μm |
| [Link to full record for micrograph 82](https://www.doitpoms.ac.uk/miclib/full_record.php?id=82) | | [Micrograph 82](https://www.doitpoms.ac.uk/miclib/full_record.php?id=82) : Aluminium, fracture surface System: Al, Composition: Not specified  Scanning electron microscopy (SEM) 15 μm |
| [Link to full record for micrograph 83](https://www.doitpoms.ac.uk/miclib/full_record.php?id=83) | | [Micrograph 83](https://www.doitpoms.ac.uk/miclib/full_record.php?id=83) : Aluminium, fracture surface System: Al, Composition: Not specified  Scanning electron microscopy (SEM) 50 μm |
| [Link to full record for micrograph 133](https://www.doitpoms.ac.uk/miclib/full_record.php?id=133) | | [Micrograph 133](https://www.doitpoms.ac.uk/miclib/full_record.php?id=133) : Steel, austenitised at 1200 centigrade for 120 s and then transformed isothermally at 350 centigrade for 2000 s before cooling to room temperature. System: Fe-C-X, Composition: Fe, C 0.24, Si 2.18, Mn 2.32, Ni 1.05 (wt%)  Atomic force microscopy (AFM) 1 μm |
| [Link to full record for micrograph 134](https://www.doitpoms.ac.uk/miclib/full_record.php?id=134) | | [Micrograph 134](https://www.doitpoms.ac.uk/miclib/full_record.php?id=134) : High carbon steel System: Fe-C-X, Composition: Fe, C 1, Mn 2, Si 1.5, Cr 1.3 (wt%)  Transmission electron microscopy (TEM) 600 nm |
| [Link to full record for micrograph 135](https://www.doitpoms.ac.uk/miclib/full_record.php?id=135) | | [Micrograph 135](https://www.doitpoms.ac.uk/miclib/full_record.php?id=135) : High carbon steel System: Fe-C-X, Composition: Fe, C 1, Mn 2, Si 1.5, Cr 1.3 (wt%)  Transmission electron microscopy (TEM) 1.5 μm |
| [Link to full record for micrograph 137](https://www.doitpoms.ac.uk/miclib/full_record.php?id=137) | | [Micrograph 137](https://www.doitpoms.ac.uk/miclib/full_record.php?id=137) : Al-Mg-Si, failed through microvoid coalescence. System: Al-Mg-Si, Composition: Al, Si 1.2, Mg 0.4 (wt%) (AA6016)  Scanning electron microscopy (SEM) 40 μm |
| [Link to full record for micrograph 138](https://www.doitpoms.ac.uk/miclib/full_record.php?id=138) | | [Micrograph 138](https://www.doitpoms.ac.uk/miclib/full_record.php?id=138) : Al-Mg-Si, failed through microvoid coalescence. System: Al-Mg-Si, Composition: Al, Si 1.2, Mg 0.4 (wt%) (AA6016)  Scanning electron microscopy (SEM) 40 μm |
| [Link to full record for micrograph 139](https://www.doitpoms.ac.uk/miclib/full_record.php?id=139) | | [Micrograph 139](https://www.doitpoms.ac.uk/miclib/full_record.php?id=139) : Al-Mg-Si, failed through microvoid coalescence. System: Al-Mg-Si, Composition: Al, Si 1.2, Mg 0.4 (wt%) (AA6016)  Scanning electron microscopy (SEM) 40 μm |
| [Link to full record for micrograph 140](https://www.doitpoms.ac.uk/miclib/full_record.php?id=140) | | [Micrograph 140](https://www.doitpoms.ac.uk/miclib/full_record.php?id=140) : Al-Mg-Si, failed through microvoid coalescence. System: Al-Mg-Si, Composition: Al, Si 1.2, Mg 0.4 (wt%) (AA6016)  Scanning electron microscopy (SEM) 40 μm |
| [Link to full record for micrograph 141](https://www.doitpoms.ac.uk/miclib/full_record.php?id=141) | | [Micrograph 141](https://www.doitpoms.ac.uk/miclib/full_record.php?id=141) : Al-Mg-Si, failed through microvoid coalescence. System: Al-Mg-Si, Composition: Al, Si 1.2, Mg 0.4 (wt%) (AA6016)  Scanning electron microscopy (SEM) 40 μm |
| [Link to full record for micrograph 142](https://www.doitpoms.ac.uk/miclib/full_record.php?id=142) | | [Micrograph 142](https://www.doitpoms.ac.uk/miclib/full_record.php?id=142) : Tough pitch copper, failed by fibrous ductile fracture. System: Cu, Composition: Tough pitch copper  Scanning electron microscopy (SEM) 20 μm |
| [Link to full record for micrograph 143](https://www.doitpoms.ac.uk/miclib/full_record.php?id=143) | | [Micrograph 143](https://www.doitpoms.ac.uk/miclib/full_record.php?id=143) : Notched low carbon ferritic steel, failed through cleavage. System: Fe-C-X, Composition: Not specified  Scanning electron microscopy (SEM) 20 μm |
| [Link to full record for micrograph 144](https://www.doitpoms.ac.uk/miclib/full_record.php?id=144) | | [Micrograph 144](https://www.doitpoms.ac.uk/miclib/full_record.php?id=144) : Zinc, notched specimen, failed through brittle cleavage fracture. System: Zn, Composition: Not specified  Scanning electron microscopy (SEM) 200 μm |
| [Link to full record for micrograph 145](https://www.doitpoms.ac.uk/miclib/full_record.php?id=145) | | [Micrograph 145](https://www.doitpoms.ac.uk/miclib/full_record.php?id=145) : Zinc, notched specimen, failed through brittle cleavage fracture. System: Zn, Composition: Not specified  Scanning electron microscopy (SEM) 1 mm |
| [Link to full record for micrograph 146](https://www.doitpoms.ac.uk/miclib/full_record.php?id=146) | | [Micrograph 146](https://www.doitpoms.ac.uk/miclib/full_record.php?id=146) : HY100 forging steel, notched impact specimen, failed through brittle intergranular fracture. System: Fe-C-X, Composition: Not specified  Scanning electron microscopy (SEM) 200 μm |
| [Link to full record for micrograph 147](https://www.doitpoms.ac.uk/miclib/full_record.php?id=147) | | [Micrograph 147](https://www.doitpoms.ac.uk/miclib/full_record.php?id=147) : HY100 forging steel, notched impact specimen, failed through brittle intergranular fracture. System: Fe-C-X, Composition: Not specified  Scanning electron microscopy (SEM) 200 μm |
| [Link to full record for micrograph 156](https://www.doitpoms.ac.uk/miclib/full_record.php?id=156) | | [Micrograph 156](https://www.doitpoms.ac.uk/miclib/full_record.php?id=156) : Roll-bonded aluminium alloy diffusion couple annealed for 30 minutes at 600ÂºC. System: Al-Fe-Mn/Al-Si, Composition: Al, Fe 0.5, Mn 1.0 / Al, Si 1.0 (wt%)  Cross-polarised light microscopy 400 μm |
| [Link to full record for micrograph 157](https://www.doitpoms.ac.uk/miclib/full_record.php?id=157) | | [Micrograph 157](https://www.doitpoms.ac.uk/miclib/full_record.php?id=157) : Roll-bonded aluminium alloy diffusion couple annealed for 60 minutes at 600ÂºC. System: Al-Fe-Mn/Al-Si, Composition: Al, Fe 0.5, Mn 1.0 / Al, Si 1.0 (wt%)  Cross-polarised light microscopy 750 μm |
| [Link to full record for micrograph 158](https://www.doitpoms.ac.uk/miclib/full_record.php?id=158) | | [Micrograph 158](https://www.doitpoms.ac.uk/miclib/full_record.php?id=158) : Roll-bonded aluminium alloy diffusion couple in the as-rolled condition. System: Al-Fe-Mn/Al-Si, Composition: Al, Fe 0.5, Mn 1.0 / Al, Si 1.0 (wt%)  Cross-polarised light microscopy 400 μm |
| [Link to full record for micrograph 159](https://www.doitpoms.ac.uk/miclib/full_record.php?id=159) | | [Micrograph 159](https://www.doitpoms.ac.uk/miclib/full_record.php?id=159) : Roll-bonded aluminium alloy diffusion couple in the as-rolled condition. System: Al-Fe-Mn/Al-Si, Composition: Al, Fe 0.5, Mn 1.0 / Al, Si 1.0 (wt%)  Cross-polarised light microscopy 2 mm |
| [Link to full record for micrograph 201](https://www.doitpoms.ac.uk/miclib/full_record.php?id=201) | | [Micrograph 201](https://www.doitpoms.ac.uk/miclib/full_record.php?id=201) : Normalised low carbon steel, showing directionality System: Fe-C-X, Composition: Wrought iron (plain carbon steel)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 202](https://www.doitpoms.ac.uk/miclib/full_record.php?id=202) | | [Micrograph 202](https://www.doitpoms.ac.uk/miclib/full_record.php?id=202) : Normalised low carbon steel, showing directionality System: Fe-C-X, Composition: Wrought iron (plain carbon steel)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 203](https://www.doitpoms.ac.uk/miclib/full_record.php?id=203) | | [Micrograph 203](https://www.doitpoms.ac.uk/miclib/full_record.php?id=203) : Normalised low carbon manganese steel, showing directionality System: Fe-C-X, Composition: Fe, C 0.1, Mn 1, S 0.5 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 204](https://www.doitpoms.ac.uk/miclib/full_record.php?id=204) | | [Micrograph 204](https://www.doitpoms.ac.uk/miclib/full_record.php?id=204) : Normalised low carbon manganese steel, showing directionality System: Fe-C-X, Composition: Fe, C 0.1, Mn 1, S 0.5 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 205](https://www.doitpoms.ac.uk/miclib/full_record.php?id=205) | | [Micrograph 205](https://www.doitpoms.ac.uk/miclib/full_record.php?id=205) : Normalised low carbon manganese steel, taken transverse to directionality System: Fe-C-X, Composition: Fe, C 0.1, Mn 1, S 0.5 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 206](https://www.doitpoms.ac.uk/miclib/full_record.php?id=206) | | [Micrograph 206](https://www.doitpoms.ac.uk/miclib/full_record.php?id=206) : Normalised low carbon manganese steel, taken transverse to directionality System: Fe-C-X, Composition: Fe, C 0.1, Mn 1, S 0.5 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 207](https://www.doitpoms.ac.uk/miclib/full_record.php?id=207) | | [Micrograph 207](https://www.doitpoms.ac.uk/miclib/full_record.php?id=207) : Normalised low carbon manganese steel, taken transverse to directionality System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 800 μm |
| [Link to full record for micrograph 208](https://www.doitpoms.ac.uk/miclib/full_record.php?id=208) | | [Micrograph 208](https://www.doitpoms.ac.uk/miclib/full_record.php?id=208) : Normalised low carbon manganese steel, taken transverse to directionality System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 209](https://www.doitpoms.ac.uk/miclib/full_record.php?id=209) | | [Micrograph 209](https://www.doitpoms.ac.uk/miclib/full_record.php?id=209) : As cast carbon steel System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 210](https://www.doitpoms.ac.uk/miclib/full_record.php?id=210) | | [Micrograph 210](https://www.doitpoms.ac.uk/miclib/full_record.php?id=210) : As cast carbon steel System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 211](https://www.doitpoms.ac.uk/miclib/full_record.php?id=211) | | [Micrograph 211](https://www.doitpoms.ac.uk/miclib/full_record.php?id=211) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 212](https://www.doitpoms.ac.uk/miclib/full_record.php?id=212) | | [Micrograph 212](https://www.doitpoms.ac.uk/miclib/full_record.php?id=212) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 213](https://www.doitpoms.ac.uk/miclib/full_record.php?id=213) | | [Micrograph 213](https://www.doitpoms.ac.uk/miclib/full_record.php?id=213) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 800 μm |
| [Link to full record for micrograph 214](https://www.doitpoms.ac.uk/miclib/full_record.php?id=214) | | [Micrograph 214](https://www.doitpoms.ac.uk/miclib/full_record.php?id=214) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 215](https://www.doitpoms.ac.uk/miclib/full_record.php?id=215) | | [Micrograph 215](https://www.doitpoms.ac.uk/miclib/full_record.php?id=215) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.08 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 216](https://www.doitpoms.ac.uk/miclib/full_record.php?id=216) | | [Micrograph 216](https://www.doitpoms.ac.uk/miclib/full_record.php?id=216) : Normalised carbon steel System: Fe-C-X, Composition: Fe, C 0.08 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 217](https://www.doitpoms.ac.uk/miclib/full_record.php?id=217) | | [Micrograph 217](https://www.doitpoms.ac.uk/miclib/full_record.php?id=217) : Low carbon steel normalised at 950°C System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 218](https://www.doitpoms.ac.uk/miclib/full_record.php?id=218) | | [Micrograph 218](https://www.doitpoms.ac.uk/miclib/full_record.php?id=218) : Low carbon steel normalised at 950°C System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 100 μm |
| [Link to full record for micrograph 219](https://www.doitpoms.ac.uk/miclib/full_record.php?id=219) | | [Micrograph 219](https://www.doitpoms.ac.uk/miclib/full_record.php?id=219) : Low carbon steel from wood screw thread. System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 800 μm |
| [Link to full record for micrograph 220](https://www.doitpoms.ac.uk/miclib/full_record.php?id=220) | | [Micrograph 220](https://www.doitpoms.ac.uk/miclib/full_record.php?id=220) : Low carbon steel from wood screw thread. System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 221](https://www.doitpoms.ac.uk/miclib/full_record.php?id=221) | | [Micrograph 221](https://www.doitpoms.ac.uk/miclib/full_record.php?id=221) : Low carbon steel from bottom of wood screw. System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 222](https://www.doitpoms.ac.uk/miclib/full_record.php?id=222) | | [Micrograph 222](https://www.doitpoms.ac.uk/miclib/full_record.php?id=222) : Low carbon steel from bottom of wood screw. System: Fe-C-X, Composition: Fe, C very low (wt%)  Reflected light microscopy 800 μm |
| [Link to full record for micrograph 223](https://www.doitpoms.ac.uk/miclib/full_record.php?id=223) | | [Micrograph 223](https://www.doitpoms.ac.uk/miclib/full_record.php?id=223) : Annealed low carbon steel with carbides System: Fe-C-X, Composition: Fe, C low (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 224](https://www.doitpoms.ac.uk/miclib/full_record.php?id=224) | | [Micrograph 224](https://www.doitpoms.ac.uk/miclib/full_record.php?id=224) : Annealed low carbon steel with carbides System: Fe-C-X, Composition: Fe, C low (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 225](https://www.doitpoms.ac.uk/miclib/full_record.php?id=225) | | [Micrograph 225](https://www.doitpoms.ac.uk/miclib/full_record.php?id=225) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 226](https://www.doitpoms.ac.uk/miclib/full_record.php?id=226) | | [Micrograph 226](https://www.doitpoms.ac.uk/miclib/full_record.php?id=226) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 227](https://www.doitpoms.ac.uk/miclib/full_record.php?id=227) | | [Micrograph 227](https://www.doitpoms.ac.uk/miclib/full_record.php?id=227) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 228](https://www.doitpoms.ac.uk/miclib/full_record.php?id=228) | | [Micrograph 228](https://www.doitpoms.ac.uk/miclib/full_record.php?id=228) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm |
| [Link to full record for micrograph 229](https://www.doitpoms.ac.uk/miclib/full_record.php?id=229) | | [Micrograph 229](https://www.doitpoms.ac.uk/miclib/full_record.php?id=229) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.5 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 230](https://www.doitpoms.ac.uk/miclib/full_record.php?id=230) | | [Micrograph 230](https://www.doitpoms.ac.uk/miclib/full_record.php?id=230) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.5 (wt%)  Reflected light microscopy 200 μm |
| [Link to full record for micrograph 231](https://www.doitpoms.ac.uk/miclib/full_record.php?id=231) | | [Micrograph 231](https://www.doitpoms.ac.uk/miclib/full_record.php?id=231) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.6 (wt%)  Reflected light microscopy 400 μm |
| [Link to full record for micrograph 232](https://www.doitpoms.ac.uk/miclib/full_record.php?id=232) | [Micrograph 232](https://www.doitpoms.ac.uk/miclib/full_record.php?id=232) : Normalised steel System: Fe-C-X, Composition: Fe, C 0.6 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 233](https://www.doitpoms.ac.uk/miclib/full_record.php?id=233) | [Micrograph 233](https://www.doitpoms.ac.uk/miclib/full_record.php?id=233) : Hypoeutectoid steel, normalised at 1100°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 234](https://www.doitpoms.ac.uk/miclib/full_record.php?id=234) | [Micrograph 234](https://www.doitpoms.ac.uk/miclib/full_record.php?id=234) : Hypoeutectoid steel, normalised at 1100°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 235](https://www.doitpoms.ac.uk/miclib/full_record.php?id=235) | [Micrograph 235](https://www.doitpoms.ac.uk/miclib/full_record.php?id=235) : Hypoeutectoid steel, normalised at 950°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 236](https://www.doitpoms.ac.uk/miclib/full_record.php?id=236) | [Micrograph 236](https://www.doitpoms.ac.uk/miclib/full_record.php?id=236) : Hypoeutectoid steel, normalised at 950°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 237](https://www.doitpoms.ac.uk/miclib/full_record.php?id=237) | [Micrograph 237](https://www.doitpoms.ac.uk/miclib/full_record.php?id=237) : Hypoeutectoid steel, normalised at 950°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 238](https://www.doitpoms.ac.uk/miclib/full_record.php?id=238) | [Micrograph 238](https://www.doitpoms.ac.uk/miclib/full_record.php?id=238) : Hypoeutectoid steel, normalised at 950°C System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 239](https://www.doitpoms.ac.uk/miclib/full_record.php?id=239) | [Micrograph 239](https://www.doitpoms.ac.uk/miclib/full_record.php?id=239) : Fe, C 0.4, Mn 0.8 (wt%) steel, normalised System: Fe-C-X, Composition: Fe, C 0.4, Mn 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 240](https://www.doitpoms.ac.uk/miclib/full_record.php?id=240) | [Micrograph 240](https://www.doitpoms.ac.uk/miclib/full_record.php?id=240) : Fe, C 0.4, Mn 0.8 (wt%) steel, normalised System: Fe-C-X, Composition: Fe, C 0.4, Mn 0.8 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 241](https://www.doitpoms.ac.uk/miclib/full_record.php?id=241) | [Micrograph 241](https://www.doitpoms.ac.uk/miclib/full_record.php?id=241) : Fe, C 0.3 (wt%) steel, spheroidised carbide System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 242](https://www.doitpoms.ac.uk/miclib/full_record.php?id=242) | [Micrograph 242](https://www.doitpoms.ac.uk/miclib/full_record.php?id=242) : Fe, C 0.3 (wt%) steel, spheroidised carbide System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 243](https://www.doitpoms.ac.uk/miclib/full_record.php?id=243) | [Micrograph 243](https://www.doitpoms.ac.uk/miclib/full_record.php?id=243) : Fe, C 1.3 (wt%) steel, annealed at 1100°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 244](https://www.doitpoms.ac.uk/miclib/full_record.php?id=244) | [Micrograph 244](https://www.doitpoms.ac.uk/miclib/full_record.php?id=244) : Fe, C 1.3 (wt%) steel, annealed at 1100°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 245](https://www.doitpoms.ac.uk/miclib/full_record.php?id=245) | [Micrograph 245](https://www.doitpoms.ac.uk/miclib/full_record.php?id=245) : Fe, C 1.3 (wt%) steel, normalised at 1050°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 246](https://www.doitpoms.ac.uk/miclib/full_record.php?id=246) | [Micrograph 246](https://www.doitpoms.ac.uk/miclib/full_record.php?id=246) : Fe, C 1.3 (wt%) steel, normalised at 1050°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 247](https://www.doitpoms.ac.uk/miclib/full_record.php?id=247) | [Micrograph 247](https://www.doitpoms.ac.uk/miclib/full_record.php?id=247) : Fe, C 1.3 (wt%) steel, normalised at 1050°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 248](https://www.doitpoms.ac.uk/miclib/full_record.php?id=248) | [Micrograph 248](https://www.doitpoms.ac.uk/miclib/full_record.php?id=248) : Fe, C 1.3 (wt%) steel, annealed at 1000°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 249](https://www.doitpoms.ac.uk/miclib/full_record.php?id=249) | [Micrograph 249](https://www.doitpoms.ac.uk/miclib/full_record.php?id=249) : Fe, C 1.3 (wt%) steel, annealed at 1000°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 250](https://www.doitpoms.ac.uk/miclib/full_record.php?id=250) | [Micrograph 250](https://www.doitpoms.ac.uk/miclib/full_record.php?id=250) : Fe, C 1.3 (wt%) steel, annealed at 1000°C System: Fe-C-X, Composition: Fe, C 1.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 251](https://www.doitpoms.ac.uk/miclib/full_record.php?id=251) | [Micrograph 251](https://www.doitpoms.ac.uk/miclib/full_record.php?id=251) : Fe, C 0.8 (wt%) steel, eutectoid transformation, normalised at 900ÂºC System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 252](https://www.doitpoms.ac.uk/miclib/full_record.php?id=252) | [Micrograph 252](https://www.doitpoms.ac.uk/miclib/full_record.php?id=252) : Fe, C 0.8 (wt%) steel, eutectoid transformation, normalised at 900ÂºC System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 253](https://www.doitpoms.ac.uk/miclib/full_record.php?id=253) | [Micrograph 253](https://www.doitpoms.ac.uk/miclib/full_record.php?id=253) : Fe, C 1 (wt%) steel, normalised hypereutectoid System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 254](https://www.doitpoms.ac.uk/miclib/full_record.php?id=254) | [Micrograph 254](https://www.doitpoms.ac.uk/miclib/full_record.php?id=254) : Fe, C 1 (wt%) steel, normalised hypereutectoid System: Fe-C-X, Composition: Fe, C 1.0 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 255](https://www.doitpoms.ac.uk/miclib/full_record.php?id=255) | [Micrograph 255](https://www.doitpoms.ac.uk/miclib/full_record.php?id=255) : Fe, C 1.1 (wt%) steel, normalised hypereutectoid System: Fe-C-X, Composition: Fe, C 1.1 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 256](https://www.doitpoms.ac.uk/miclib/full_record.php?id=256) | [Micrograph 256](https://www.doitpoms.ac.uk/miclib/full_record.php?id=256) : Fe, C 1.1 (wt%) steel, normalised hypereutectoid System: Fe-C-X, Composition: Fe, C 1.1 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 260](https://www.doitpoms.ac.uk/miclib/full_record.php?id=260) | [Micrograph 260](https://www.doitpoms.ac.uk/miclib/full_record.php?id=260) : Eutectoid steel, normalised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 261](https://www.doitpoms.ac.uk/miclib/full_record.php?id=261) | [Micrograph 261](https://www.doitpoms.ac.uk/miclib/full_record.php?id=261) : Eutectoid steel, normalised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 262](https://www.doitpoms.ac.uk/miclib/full_record.php?id=262) | [Micrograph 262](https://www.doitpoms.ac.uk/miclib/full_record.php?id=262) : Eutectoid steel, normalised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 263](https://www.doitpoms.ac.uk/miclib/full_record.php?id=263) | [Micrograph 263](https://www.doitpoms.ac.uk/miclib/full_record.php?id=263) : Eutectoid steel, normalised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 264](https://www.doitpoms.ac.uk/miclib/full_record.php?id=264) | [Micrograph 264](https://www.doitpoms.ac.uk/miclib/full_record.php?id=264) : Eutectoid steel, normalised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 265](https://www.doitpoms.ac.uk/miclib/full_record.php?id=265) | [Micrograph 265](https://www.doitpoms.ac.uk/miclib/full_record.php?id=265) : Fe, C 0.8 (wt%) steel, eutectoid transformation, spheroidised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 266](https://www.doitpoms.ac.uk/miclib/full_record.php?id=266) | [Micrograph 266](https://www.doitpoms.ac.uk/miclib/full_record.php?id=266) : Fe, C 0.8 (wt%) steel, eutectoid transformation, spheroidised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 267](https://www.doitpoms.ac.uk/miclib/full_record.php?id=267) | [Micrograph 267](https://www.doitpoms.ac.uk/miclib/full_record.php?id=267) : Fe, C 0.8 (wt%) steel, eutectoid transformation, spheroidised System: Fe-C-X, Composition: Fe, C 0.8 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 268](https://www.doitpoms.ac.uk/miclib/full_record.php?id=268) | [Micrograph 268](https://www.doitpoms.ac.uk/miclib/full_record.php?id=268) : Fe, C 0.5 (wt%) steel, near a decarburised surface System: Fe-C-X, Composition: Fe, C 0.5 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 269](https://www.doitpoms.ac.uk/miclib/full_record.php?id=269) | [Micrograph 269](https://www.doitpoms.ac.uk/miclib/full_record.php?id=269) : Fe, C 0.6 (wt%) steel, hard drawn System: Fe-C-X, Composition: Fe, C 0.6 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 270](https://www.doitpoms.ac.uk/miclib/full_record.php?id=270) | [Micrograph 270](https://www.doitpoms.ac.uk/miclib/full_record.php?id=270) : Fe, C 0.6 (wt%) steel, hard drawn System: Fe-C-X, Composition: Fe, C 0.6 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 271](https://www.doitpoms.ac.uk/miclib/full_record.php?id=271) | [Micrograph 271](https://www.doitpoms.ac.uk/miclib/full_record.php?id=271) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 272](https://www.doitpoms.ac.uk/miclib/full_record.php?id=272) | [Micrograph 272](https://www.doitpoms.ac.uk/miclib/full_record.php?id=272) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 273](https://www.doitpoms.ac.uk/miclib/full_record.php?id=273) | [Micrograph 273](https://www.doitpoms.ac.uk/miclib/full_record.php?id=273) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 274](https://www.doitpoms.ac.uk/miclib/full_record.php?id=274) | [Micrograph 274](https://www.doitpoms.ac.uk/miclib/full_record.php?id=274) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 275](https://www.doitpoms.ac.uk/miclib/full_record.php?id=275) | [Micrograph 275](https://www.doitpoms.ac.uk/miclib/full_record.php?id=275) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 276](https://www.doitpoms.ac.uk/miclib/full_record.php?id=276) | [Micrograph 276](https://www.doitpoms.ac.uk/miclib/full_record.php?id=276) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 277](https://www.doitpoms.ac.uk/miclib/full_record.php?id=277) | [Micrograph 277](https://www.doitpoms.ac.uk/miclib/full_record.php?id=277) : Fe, C 0.07, Mn 2.3 (wt%) steel, carburised at 950°C System: Fe-C-X, Composition: Fe, C 0.07, Mn 2.2 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 278](https://www.doitpoms.ac.uk/miclib/full_record.php?id=278) | [Micrograph 278](https://www.doitpoms.ac.uk/miclib/full_record.php?id=278) : Fe, C 2, Mn 0.7 (wt%) steel, quenched, producing martensite System: Fe-C-X, Composition: Fe, C 0.55, Mn 0.65 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 279](https://www.doitpoms.ac.uk/miclib/full_record.php?id=279) | [Micrograph 279](https://www.doitpoms.ac.uk/miclib/full_record.php?id=279) : Fe, C 2, Mn 0.7 (wt%) steel, quenched, producing martensite and cracking System: Fe-C-X, Composition: Fe, C 0.55, Mn 0.65 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 280](https://www.doitpoms.ac.uk/miclib/full_record.php?id=280) | [Micrograph 280](https://www.doitpoms.ac.uk/miclib/full_record.php?id=280) : Fe, C 2, Mn 0.7 (wt%) steel, quenched, producing martensite and cracking System: Fe-C-X, Composition: Fe, C 0.55, Mn 0.65 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 281](https://www.doitpoms.ac.uk/miclib/full_record.php?id=281) | [Micrograph 281](https://www.doitpoms.ac.uk/miclib/full_record.php?id=281) : Fe, C 0.2 (wt%) steel, case hardened System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 282](https://www.doitpoms.ac.uk/miclib/full_record.php?id=282) | [Micrograph 282](https://www.doitpoms.ac.uk/miclib/full_record.php?id=282) : Fe, C 0.2 (wt%) steel, case hardened System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 283](https://www.doitpoms.ac.uk/miclib/full_record.php?id=283) | [Micrograph 283](https://www.doitpoms.ac.uk/miclib/full_record.php?id=283) : Fe, C 0.2 (wt%) steel, case hardened System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 284](https://www.doitpoms.ac.uk/miclib/full_record.php?id=284) | [Micrograph 284](https://www.doitpoms.ac.uk/miclib/full_record.php?id=284) : Fe, C 0.2 (wt%) steel, case hardened System: Fe-C-X, Composition: Fe, C 0.2 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 285](https://www.doitpoms.ac.uk/miclib/full_record.php?id=285) | [Micrograph 285](https://www.doitpoms.ac.uk/miclib/full_record.php?id=285) : Chromitised low carbon steel System: Fe-C-X, Composition: Fe, C low (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 286](https://www.doitpoms.ac.uk/miclib/full_record.php?id=286) | [Micrograph 286](https://www.doitpoms.ac.uk/miclib/full_record.php?id=286) : Fe, C 0.15 (wt%) steel, carburised System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 287](https://www.doitpoms.ac.uk/miclib/full_record.php?id=287) | [Micrograph 287](https://www.doitpoms.ac.uk/miclib/full_record.php?id=287) : Fe, C 0.15 (wt%) steel, carburised System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 288](https://www.doitpoms.ac.uk/miclib/full_record.php?id=288) | [Micrograph 288](https://www.doitpoms.ac.uk/miclib/full_record.php?id=288) : Fe, C 0.15 (wt%) steel, carburised System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 289](https://www.doitpoms.ac.uk/miclib/full_record.php?id=289) | [Micrograph 289](https://www.doitpoms.ac.uk/miclib/full_record.php?id=289) : Fe, C 0.15 (wt%) steel, carburised System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 290](https://www.doitpoms.ac.uk/miclib/full_record.php?id=290) | [Micrograph 290](https://www.doitpoms.ac.uk/miclib/full_record.php?id=290) : Fe, C 0.4 (wt%) steel, quenched, martensitic and quench cracks System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 291](https://www.doitpoms.ac.uk/miclib/full_record.php?id=291) | [Micrograph 291](https://www.doitpoms.ac.uk/miclib/full_record.php?id=291) : Fe, C 0.4 (wt%) steel, quenched, martensitic and quench cracks System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 292](https://www.doitpoms.ac.uk/miclib/full_record.php?id=292) | [Micrograph 292](https://www.doitpoms.ac.uk/miclib/full_record.php?id=292) : Fe, C 0.4 (wt%) steel, quenched, martensitic and quench cracks System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 293](https://www.doitpoms.ac.uk/miclib/full_record.php?id=293) | [Micrograph 293](https://www.doitpoms.ac.uk/miclib/full_record.php?id=293) : Fe, C 0.4 (wt%) steel, quenched, martensitic System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 294](https://www.doitpoms.ac.uk/miclib/full_record.php?id=294) | [Micrograph 294](https://www.doitpoms.ac.uk/miclib/full_record.php?id=294) : Fe, C 0.75 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 295](https://www.doitpoms.ac.uk/miclib/full_record.php?id=295) | [Micrograph 295](https://www.doitpoms.ac.uk/miclib/full_record.php?id=295) : Fe, C 0.75 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 296](https://www.doitpoms.ac.uk/miclib/full_record.php?id=296) | [Micrograph 296](https://www.doitpoms.ac.uk/miclib/full_record.php?id=296) : Fe, C 0.75 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 297](https://www.doitpoms.ac.uk/miclib/full_record.php?id=297) | [Micrograph 297](https://www.doitpoms.ac.uk/miclib/full_record.php?id=297) : Fe, C 0.75 (wt%) steel, quenched, martensitic and quench cracks System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 298](https://www.doitpoms.ac.uk/miclib/full_record.php?id=298) | [Micrograph 298](https://www.doitpoms.ac.uk/miclib/full_record.php?id=298) : Fe, C 0.75 (wt%) steel, quenched, martensitic and quench cracks System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 299](https://www.doitpoms.ac.uk/miclib/full_record.php?id=299) | [Micrograph 299](https://www.doitpoms.ac.uk/miclib/full_record.php?id=299) : Fe, C 0.75 (wt%) steel, quenched, martensitic and manganese sulphides System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 300](https://www.doitpoms.ac.uk/miclib/full_record.php?id=300) | [Micrograph 300](https://www.doitpoms.ac.uk/miclib/full_record.php?id=300) : Fe, C 0.75 (wt%) steel, quenched, martensitic and manganese sulphides System: Fe-C-X, Composition: Fe, C 0.75 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 301](https://www.doitpoms.ac.uk/miclib/full_record.php?id=301) | [Micrograph 301](https://www.doitpoms.ac.uk/miclib/full_record.php?id=301) : Fe, C 0.55 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 302](https://www.doitpoms.ac.uk/miclib/full_record.php?id=302) | [Micrograph 302](https://www.doitpoms.ac.uk/miclib/full_record.php?id=302) : Fe, C 0.55 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 303](https://www.doitpoms.ac.uk/miclib/full_record.php?id=303) | [Micrograph 303](https://www.doitpoms.ac.uk/miclib/full_record.php?id=303) : Fe, C 0.3 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 304](https://www.doitpoms.ac.uk/miclib/full_record.php?id=304) | [Micrograph 304](https://www.doitpoms.ac.uk/miclib/full_record.php?id=304) : Fe, C 0.3 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 305](https://www.doitpoms.ac.uk/miclib/full_record.php?id=305) | [Micrograph 305](https://www.doitpoms.ac.uk/miclib/full_record.php?id=305) : Fe, C 0.3 (wt%) steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 306](https://www.doitpoms.ac.uk/miclib/full_record.php?id=306) | [Micrograph 306](https://www.doitpoms.ac.uk/miclib/full_record.php?id=306) : Fe, C 0.55 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 307](https://www.doitpoms.ac.uk/miclib/full_record.php?id=307) | [Micrograph 307](https://www.doitpoms.ac.uk/miclib/full_record.php?id=307) : Fe, C 0.55 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 308](https://www.doitpoms.ac.uk/miclib/full_record.php?id=308) | [Micrograph 308](https://www.doitpoms.ac.uk/miclib/full_record.php?id=308) : Fe, C 0.55 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.55 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 309](https://www.doitpoms.ac.uk/miclib/full_record.php?id=309) | [Micrograph 309](https://www.doitpoms.ac.uk/miclib/full_record.php?id=309) : Fe, C 0.4 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 310](https://www.doitpoms.ac.uk/miclib/full_record.php?id=310) | [Micrograph 310](https://www.doitpoms.ac.uk/miclib/full_record.php?id=310) : Fe, C 0.4 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 311](https://www.doitpoms.ac.uk/miclib/full_record.php?id=311) | [Micrograph 311](https://www.doitpoms.ac.uk/miclib/full_record.php?id=311) : Fe, C 0.4 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 312](https://www.doitpoms.ac.uk/miclib/full_record.php?id=312) | [Micrograph 312](https://www.doitpoms.ac.uk/miclib/full_record.php?id=312) : Fe, C 0.4 (wt%) steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 313](https://www.doitpoms.ac.uk/miclib/full_record.php?id=313) | [Micrograph 313](https://www.doitpoms.ac.uk/miclib/full_record.php?id=313) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 314](https://www.doitpoms.ac.uk/miclib/full_record.php?id=314) | [Micrograph 314](https://www.doitpoms.ac.uk/miclib/full_record.php?id=314) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 315](https://www.doitpoms.ac.uk/miclib/full_record.php?id=315) | [Micrograph 315](https://www.doitpoms.ac.uk/miclib/full_record.php?id=315) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 316](https://www.doitpoms.ac.uk/miclib/full_record.php?id=316) | [Micrograph 316](https://www.doitpoms.ac.uk/miclib/full_record.php?id=316) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 317](https://www.doitpoms.ac.uk/miclib/full_record.php?id=317) | [Micrograph 317](https://www.doitpoms.ac.uk/miclib/full_record.php?id=317) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 318](https://www.doitpoms.ac.uk/miclib/full_record.php?id=318) | [Micrograph 318](https://www.doitpoms.ac.uk/miclib/full_record.php?id=318) : Fe, C 0.9 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 0.9 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 326](https://www.doitpoms.ac.uk/miclib/full_record.php?id=326) | [Micrograph 326](https://www.doitpoms.ac.uk/miclib/full_record.php?id=326) : Low alloy medium carbon steel, isothermally transformed System: Fe-C-X, Composition: Fe, C 0.4, Ni 1.3, Cr 0.65, Mo 0.65 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 327](https://www.doitpoms.ac.uk/miclib/full_record.php?id=327) | [Micrograph 327](https://www.doitpoms.ac.uk/miclib/full_record.php?id=327) : Low alloy medium carbon steel, isothermally transformed System: Fe-C-X, Composition: Fe, C 0.4, Ni 1.3, Cr 0.65, Mo 0.65 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 328](https://www.doitpoms.ac.uk/miclib/full_record.php?id=328) | [Micrograph 328](https://www.doitpoms.ac.uk/miclib/full_record.php?id=328) : Nickel low carbon steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 329](https://www.doitpoms.ac.uk/miclib/full_record.php?id=329) | [Micrograph 329](https://www.doitpoms.ac.uk/miclib/full_record.php?id=329) : Nickel low carbon steel, quenched and tempered System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 330](https://www.doitpoms.ac.uk/miclib/full_record.php?id=330) | [Micrograph 330](https://www.doitpoms.ac.uk/miclib/full_record.php?id=330) : Near eutectoid steel, quenched to produce martensite System: Fe-C-X, Composition: Fe, C 0.86 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 331](https://www.doitpoms.ac.uk/miclib/full_record.php?id=331) | [Micrograph 331](https://www.doitpoms.ac.uk/miclib/full_record.php?id=331) : Near eutectoid steel, quenched to produce martensite System: Fe-C-X, Composition: Fe, C 0.86 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 332](https://www.doitpoms.ac.uk/miclib/full_record.php?id=332) | [Micrograph 332](https://www.doitpoms.ac.uk/miclib/full_record.php?id=332) : Fe, C 0.86 (wt%) steel, quenched, cracked System: Fe-C-X, Composition: Fe, C 0.86 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 333](https://www.doitpoms.ac.uk/miclib/full_record.php?id=333) | [Micrograph 333](https://www.doitpoms.ac.uk/miclib/full_record.php?id=333) : Medium carbon steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 334](https://www.doitpoms.ac.uk/miclib/full_record.php?id=334) | [Micrograph 334](https://www.doitpoms.ac.uk/miclib/full_record.php?id=334) : Medium carbon steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 335](https://www.doitpoms.ac.uk/miclib/full_record.php?id=335) | [Micrograph 335](https://www.doitpoms.ac.uk/miclib/full_record.php?id=335) : Medium carbon steel, slow quenched System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 336](https://www.doitpoms.ac.uk/miclib/full_record.php?id=336) | [Micrograph 336](https://www.doitpoms.ac.uk/miclib/full_record.php?id=336) : Medium carbon steel, quenched System: Fe-C-X, Composition: Fe, C 0.3 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 337](https://www.doitpoms.ac.uk/miclib/full_record.php?id=337) | [Micrograph 337](https://www.doitpoms.ac.uk/miclib/full_record.php?id=337) : Fe, C 1.35 (wt%) steel, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 338](https://www.doitpoms.ac.uk/miclib/full_record.php?id=338) | [Micrograph 338](https://www.doitpoms.ac.uk/miclib/full_record.php?id=338) : Fe, C 1.35 (wt%) steel, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 339](https://www.doitpoms.ac.uk/miclib/full_record.php?id=339) | [Micrograph 339](https://www.doitpoms.ac.uk/miclib/full_record.php?id=339) : Fe, C 1.35 (wt%) steel, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 340](https://www.doitpoms.ac.uk/miclib/full_record.php?id=340) | [Micrograph 340](https://www.doitpoms.ac.uk/miclib/full_record.php?id=340) : Low alloy medium carbon steel, containing Ni, Cr, Mo, annealed System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 341](https://www.doitpoms.ac.uk/miclib/full_record.php?id=341) | [Micrograph 341](https://www.doitpoms.ac.uk/miclib/full_record.php?id=341) : Low alloy medium carbon steel, containing Ni, Cr, Mo, annealed System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 342](https://www.doitpoms.ac.uk/miclib/full_record.php?id=342) | [Micrograph 342](https://www.doitpoms.ac.uk/miclib/full_record.php?id=342) : Medium carbon, low alloy steel System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 343](https://www.doitpoms.ac.uk/miclib/full_record.php?id=343) | [Micrograph 343](https://www.doitpoms.ac.uk/miclib/full_record.php?id=343) : Medium carbon, low alloy steel System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 344](https://www.doitpoms.ac.uk/miclib/full_record.php?id=344) | [Micrograph 344](https://www.doitpoms.ac.uk/miclib/full_record.php?id=344) : Medium carbon, low alloy steel. System: Fe-C-X, Composition: Fe, C 0.31, Ni 3.0, Cr 0.9, Mn 0.6 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 345](https://www.doitpoms.ac.uk/miclib/full_record.php?id=345) | [Micrograph 345](https://www.doitpoms.ac.uk/miclib/full_record.php?id=345) : Medium carbon, low alloy steel, isothermally transformed System: Fe-C-X, Composition: Fe, C 0.4, Ni 1.3, Cr 0.65, Mo 0.65 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 346](https://www.doitpoms.ac.uk/miclib/full_record.php?id=346) | [Micrograph 346](https://www.doitpoms.ac.uk/miclib/full_record.php?id=346) : Fe, C 1.35 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 347](https://www.doitpoms.ac.uk/miclib/full_record.php?id=347) | [Micrograph 347](https://www.doitpoms.ac.uk/miclib/full_record.php?id=347) : Fe, C 1.35 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 348](https://www.doitpoms.ac.uk/miclib/full_record.php?id=348) | [Micrograph 348](https://www.doitpoms.ac.uk/miclib/full_record.php?id=348) : Fe, C 1.35 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 349](https://www.doitpoms.ac.uk/miclib/full_record.php?id=349) | [Micrograph 349](https://www.doitpoms.ac.uk/miclib/full_record.php?id=349) : Fe, C 1.35 (wt%) steel, hypereutectoid, quenched System: Fe-C-X, Composition: Fe, C 1.35 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 350](https://www.doitpoms.ac.uk/miclib/full_record.php?id=350) | [Micrograph 350](https://www.doitpoms.ac.uk/miclib/full_record.php?id=350) : Fe, C 0.15 (wt%) steel, quenched. System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 351](https://www.doitpoms.ac.uk/miclib/full_record.php?id=351) | [Micrograph 351](https://www.doitpoms.ac.uk/miclib/full_record.php?id=351) : Fe, C 0.15 (wt%) steel, quenched. System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 352](https://www.doitpoms.ac.uk/miclib/full_record.php?id=352) | [Micrograph 352](https://www.doitpoms.ac.uk/miclib/full_record.php?id=352) : Fe, C 0.15 (wt%) steel, quenched. System: Fe-C-X, Composition: Fe, C 0.15 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 353](https://www.doitpoms.ac.uk/miclib/full_record.php?id=353) | [Micrograph 353](https://www.doitpoms.ac.uk/miclib/full_record.php?id=353) : Pearlitic malleable cast iron System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 354](https://www.doitpoms.ac.uk/miclib/full_record.php?id=354) | [Micrograph 354](https://www.doitpoms.ac.uk/miclib/full_record.php?id=354) : Pearlitic malleable cast iron System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 355](https://www.doitpoms.ac.uk/miclib/full_record.php?id=355) | [Micrograph 355](https://www.doitpoms.ac.uk/miclib/full_record.php?id=355) : Pearlitic malleable cast iron System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 356](https://www.doitpoms.ac.uk/miclib/full_record.php?id=356) | [Micrograph 356](https://www.doitpoms.ac.uk/miclib/full_record.php?id=356) : Pearlitic malleable cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 357](https://www.doitpoms.ac.uk/miclib/full_record.php?id=357) | [Micrograph 357](https://www.doitpoms.ac.uk/miclib/full_record.php?id=357) : Pearlitic malleable cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 358](https://www.doitpoms.ac.uk/miclib/full_record.php?id=358) | [Micrograph 358](https://www.doitpoms.ac.uk/miclib/full_record.php?id=358) : White cast iron, annealed to precipitate out carbon System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 359](https://www.doitpoms.ac.uk/miclib/full_record.php?id=359) | [Micrograph 359](https://www.doitpoms.ac.uk/miclib/full_record.php?id=359) : White cast iron, annealed to precipitate out carbon System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 360](https://www.doitpoms.ac.uk/miclib/full_record.php?id=360) | [Micrograph 360](https://www.doitpoms.ac.uk/miclib/full_record.php?id=360) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 361](https://www.doitpoms.ac.uk/miclib/full_record.php?id=361) | [Micrograph 361](https://www.doitpoms.ac.uk/miclib/full_record.php?id=361) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 362](https://www.doitpoms.ac.uk/miclib/full_record.php?id=362) | [Micrograph 362](https://www.doitpoms.ac.uk/miclib/full_record.php?id=362) : White cast iron, subject to slow heating and cooling treatment  System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 363](https://www.doitpoms.ac.uk/miclib/full_record.php?id=363) | [Micrograph 363](https://www.doitpoms.ac.uk/miclib/full_record.php?id=363) : White cast iron, subject to slow heating and cooling treatment  System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 364](https://www.doitpoms.ac.uk/miclib/full_record.php?id=364) | [Micrograph 364](https://www.doitpoms.ac.uk/miclib/full_record.php?id=364) : White cast iron, subject to slow heating and cooling treatment  System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 365](https://www.doitpoms.ac.uk/miclib/full_record.php?id=365) | [Micrograph 365](https://www.doitpoms.ac.uk/miclib/full_record.php?id=365) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%), + ...  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 366](https://www.doitpoms.ac.uk/miclib/full_record.php?id=366) | [Micrograph 366](https://www.doitpoms.ac.uk/miclib/full_record.php?id=366) : Whiteheart cast iron System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%), + ...  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 367](https://www.doitpoms.ac.uk/miclib/full_record.php?id=367) | [Micrograph 367](https://www.doitpoms.ac.uk/miclib/full_record.php?id=367) : Whiteheart cast iron System: Fe-C-X, Composition: Fe, C 3.4, Si 0.35, Mn 0.22 (wt%), + ...  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 368](https://www.doitpoms.ac.uk/miclib/full_record.php?id=368) | [Micrograph 368](https://www.doitpoms.ac.uk/miclib/full_record.php?id=368) : Blackheart cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 369](https://www.doitpoms.ac.uk/miclib/full_record.php?id=369) | [Micrograph 369](https://www.doitpoms.ac.uk/miclib/full_record.php?id=369) : Blackheart cast iron System: Fe-C-X, Composition: Fe, C 2.4, Si 1.1, Mn 1.1 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 370](https://www.doitpoms.ac.uk/miclib/full_record.php?id=370) | [Micrograph 370](https://www.doitpoms.ac.uk/miclib/full_record.php?id=370) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.85, Si 0.33, Mn 0.39, Cr 0.91 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 371](https://www.doitpoms.ac.uk/miclib/full_record.php?id=371) | [Micrograph 371](https://www.doitpoms.ac.uk/miclib/full_record.php?id=371) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.85, Si 0.33, Mn 0.39, Cr 0.91 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 372](https://www.doitpoms.ac.uk/miclib/full_record.php?id=372) | [Micrograph 372](https://www.doitpoms.ac.uk/miclib/full_record.php?id=372) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 3.62, Si 0.33, Mn 0.38, Cr 0.89 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 373](https://www.doitpoms.ac.uk/miclib/full_record.php?id=373) | [Micrograph 373](https://www.doitpoms.ac.uk/miclib/full_record.php?id=373) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 3.62, Si 0.33, Mn 0.38, Cr 0.89 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 374](https://www.doitpoms.ac.uk/miclib/full_record.php?id=374) | [Micrograph 374](https://www.doitpoms.ac.uk/miclib/full_record.php?id=374) : Fully transformed ledeburite cast iron System: Fe-C-X, Composition: Fe, C 4.17, Si 0.40, Mn 0.45, Cr 0.95 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 375](https://www.doitpoms.ac.uk/miclib/full_record.php?id=375) | [Micrograph 375](https://www.doitpoms.ac.uk/miclib/full_record.php?id=375) : Fully transformed ledeburite cast iron System: Fe-C-X, Composition: Fe, C 4.17, Si 0.40, Mn 0.45, Cr 0.95 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 376](https://www.doitpoms.ac.uk/miclib/full_record.php?id=376) | [Micrograph 376](https://www.doitpoms.ac.uk/miclib/full_record.php?id=376) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 3.56, Si 0.20, Mn 0.37, Cr 0.91 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 377](https://www.doitpoms.ac.uk/miclib/full_record.php?id=377) | [Micrograph 377](https://www.doitpoms.ac.uk/miclib/full_record.php?id=377) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 3.56, Si 0.20, Mn 0.37, Cr 0.91 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 378](https://www.doitpoms.ac.uk/miclib/full_record.php?id=378) | [Micrograph 378](https://www.doitpoms.ac.uk/miclib/full_record.php?id=378) : Grey cast iron with significant Si content System: Fe-C-X, Composition: Fe, C 3.52, Si 3.26, Mn 0.47 (wt%) (Grey cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 379](https://www.doitpoms.ac.uk/miclib/full_record.php?id=379) | [Micrograph 379](https://www.doitpoms.ac.uk/miclib/full_record.php?id=379) : Grey cast iron with significant Si content System: Fe-C-X, Composition: Fe, C 3.52, Si 3.26, Mn 0.47 (wt%) (Grey cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 380](https://www.doitpoms.ac.uk/miclib/full_record.php?id=380) | [Micrograph 380](https://www.doitpoms.ac.uk/miclib/full_record.php?id=380) : Grey cast iron with significant Si content System: Fe-C-X, Composition: Fe, C 3.52, Si 3.26, Mn 0.47 (wt%) (Grey cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 381](https://www.doitpoms.ac.uk/miclib/full_record.php?id=381) | [Micrograph 381](https://www.doitpoms.ac.uk/miclib/full_record.php?id=381) : Grey cast iron System: Fe-C-X, Composition: Grey cast iron  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 382](https://www.doitpoms.ac.uk/miclib/full_record.php?id=382) | [Micrograph 382](https://www.doitpoms.ac.uk/miclib/full_record.php?id=382) : Grey cast iron System: Fe-C-X, Composition: Grey cast iron  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 383](https://www.doitpoms.ac.uk/miclib/full_record.php?id=383) | [Micrograph 383](https://www.doitpoms.ac.uk/miclib/full_record.php?id=383) : Grey cast iron System: Fe-C-X, Composition: Grey cast iron  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 384](https://www.doitpoms.ac.uk/miclib/full_record.php?id=384) | [Micrograph 384](https://www.doitpoms.ac.uk/miclib/full_record.php?id=384) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.3, Mn 4.0 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 385](https://www.doitpoms.ac.uk/miclib/full_record.php?id=385) | [Micrograph 385](https://www.doitpoms.ac.uk/miclib/full_record.php?id=385) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.3, Mn 4.0 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 386](https://www.doitpoms.ac.uk/miclib/full_record.php?id=386) | [Micrograph 386](https://www.doitpoms.ac.uk/miclib/full_record.php?id=386) : As cast white cast iron System: Fe-C-X, Composition: Fe, C 2.3, Mn 4.0 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 387](https://www.doitpoms.ac.uk/miclib/full_record.php?id=387) | [Micrograph 387](https://www.doitpoms.ac.uk/miclib/full_record.php?id=387) : Silal System: Fe-C-X, Composition: Fe, C 2.10, Si 5.60, Mn 0.50 (wt%) (Silal)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 388](https://www.doitpoms.ac.uk/miclib/full_record.php?id=388) | [Micrograph 388](https://www.doitpoms.ac.uk/miclib/full_record.php?id=388) : Silal System: Fe-C-X, Composition: Fe, C 2.10, Si 5.60, Mn 0.50 (wt%) (Silal)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 389](https://www.doitpoms.ac.uk/miclib/full_record.php?id=389) | [Micrograph 389](https://www.doitpoms.ac.uk/miclib/full_record.php?id=389) : Silal System: Fe-C-X, Composition: Fe, C 2.10, Si 5.60, Mn 0.50 (wt%) (Silal)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 390](https://www.doitpoms.ac.uk/miclib/full_record.php?id=390) | [Micrograph 390](https://www.doitpoms.ac.uk/miclib/full_record.php?id=390) : Nickel hard cast iron, martensitic System: Fe-C-X, Composition: Fe, C 2.95, Si 0.60, Mn 0.60, Ni 4.00, Cr 1.90 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 391](https://www.doitpoms.ac.uk/miclib/full_record.php?id=391) | [Micrograph 391](https://www.doitpoms.ac.uk/miclib/full_record.php?id=391) : Nickel hard cast iron, martensitic System: Fe-C-X, Composition: Fe, C 2.95, Si 0.60, Mn 0.60, Ni 4.00, Cr 1.90 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 392](https://www.doitpoms.ac.uk/miclib/full_record.php?id=392) | [Micrograph 392](https://www.doitpoms.ac.uk/miclib/full_record.php?id=392) : Nickel hard cast iron, martensitic System: Fe-C-X, Composition: Fe, C 2.95, Si 0.60, Mn 0.60, Ni 4.00, Cr 1.90 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 393](https://www.doitpoms.ac.uk/miclib/full_record.php?id=393) | [Micrograph 393](https://www.doitpoms.ac.uk/miclib/full_record.php?id=393) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 394](https://www.doitpoms.ac.uk/miclib/full_record.php?id=394) | [Micrograph 394](https://www.doitpoms.ac.uk/miclib/full_record.php?id=394) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 395](https://www.doitpoms.ac.uk/miclib/full_record.php?id=395) | [Micrograph 395](https://www.doitpoms.ac.uk/miclib/full_record.php?id=395) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 396](https://www.doitpoms.ac.uk/miclib/full_record.php?id=396) | [Micrograph 396](https://www.doitpoms.ac.uk/miclib/full_record.php?id=396) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 397](https://www.doitpoms.ac.uk/miclib/full_record.php?id=397) | [Micrograph 397](https://www.doitpoms.ac.uk/miclib/full_record.php?id=397) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy, polarised 400 μm | |
| [Link to full record for micrograph 398](https://www.doitpoms.ac.uk/miclib/full_record.php?id=398) | [Micrograph 398](https://www.doitpoms.ac.uk/miclib/full_record.php?id=398) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 399](https://www.doitpoms.ac.uk/miclib/full_record.php?id=399) | [Micrograph 399](https://www.doitpoms.ac.uk/miclib/full_record.php?id=399) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 400](https://www.doitpoms.ac.uk/miclib/full_record.php?id=400) | [Micrograph 400](https://www.doitpoms.ac.uk/miclib/full_record.php?id=400) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 401](https://www.doitpoms.ac.uk/miclib/full_record.php?id=401) | [Micrograph 401](https://www.doitpoms.ac.uk/miclib/full_record.php?id=401) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 402](https://www.doitpoms.ac.uk/miclib/full_record.php?id=402) | [Micrograph 402](https://www.doitpoms.ac.uk/miclib/full_record.php?id=402) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 403](https://www.doitpoms.ac.uk/miclib/full_record.php?id=403) | [Micrograph 403](https://www.doitpoms.ac.uk/miclib/full_record.php?id=403) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 404](https://www.doitpoms.ac.uk/miclib/full_record.php?id=404) | [Micrograph 404](https://www.doitpoms.ac.uk/miclib/full_record.php?id=404) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 405](https://www.doitpoms.ac.uk/miclib/full_record.php?id=405) | [Micrograph 405](https://www.doitpoms.ac.uk/miclib/full_record.php?id=405) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 406](https://www.doitpoms.ac.uk/miclib/full_record.php?id=406) | [Micrograph 406](https://www.doitpoms.ac.uk/miclib/full_record.php?id=406) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 407](https://www.doitpoms.ac.uk/miclib/full_record.php?id=407) | [Micrograph 407](https://www.doitpoms.ac.uk/miclib/full_record.php?id=407) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 408](https://www.doitpoms.ac.uk/miclib/full_record.php?id=408) | [Micrograph 408](https://www.doitpoms.ac.uk/miclib/full_record.php?id=408) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 409](https://www.doitpoms.ac.uk/miclib/full_record.php?id=409) | [Micrograph 409](https://www.doitpoms.ac.uk/miclib/full_record.php?id=409) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 410](https://www.doitpoms.ac.uk/miclib/full_record.php?id=410) | [Micrograph 410](https://www.doitpoms.ac.uk/miclib/full_record.php?id=410) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 411](https://www.doitpoms.ac.uk/miclib/full_record.php?id=411) | [Micrograph 411](https://www.doitpoms.ac.uk/miclib/full_record.php?id=411) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 412](https://www.doitpoms.ac.uk/miclib/full_record.php?id=412) | [Micrograph 412](https://www.doitpoms.ac.uk/miclib/full_record.php?id=412) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 413](https://www.doitpoms.ac.uk/miclib/full_record.php?id=413) | [Micrograph 413](https://www.doitpoms.ac.uk/miclib/full_record.php?id=413) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 414](https://www.doitpoms.ac.uk/miclib/full_record.php?id=414) | [Micrograph 414](https://www.doitpoms.ac.uk/miclib/full_record.php?id=414) : Cast iron, containing phosphorus System: Fe-C-X, Composition: Fe, C 3.46, Si 0.12, Mn 0.33, P 1.91, Cr 1.02 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 415](https://www.doitpoms.ac.uk/miclib/full_record.php?id=415) | [Micrograph 415](https://www.doitpoms.ac.uk/miclib/full_record.php?id=415) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 416](https://www.doitpoms.ac.uk/miclib/full_record.php?id=416) | [Micrograph 416](https://www.doitpoms.ac.uk/miclib/full_record.php?id=416) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 417](https://www.doitpoms.ac.uk/miclib/full_record.php?id=417) | [Micrograph 417](https://www.doitpoms.ac.uk/miclib/full_record.php?id=417) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy, polarised with wave-plate 800 μm | |
| [Link to full record for micrograph 418](https://www.doitpoms.ac.uk/miclib/full_record.php?id=418) | [Micrograph 418](https://www.doitpoms.ac.uk/miclib/full_record.php?id=418) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 419](https://www.doitpoms.ac.uk/miclib/full_record.php?id=419) | [Micrograph 419](https://www.doitpoms.ac.uk/miclib/full_record.php?id=419) : Cast iron with magnesium induced spheroidised graphite System: Fe-C-X, Composition: Fe, C 2-4, other constituents (wt% typical) (Cast iron)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 420](https://www.doitpoms.ac.uk/miclib/full_record.php?id=420) | [Micrograph 420](https://www.doitpoms.ac.uk/miclib/full_record.php?id=420) : Commercial brass, ~30% Zn, displaying dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (approx), Pb 1.3, Sn 0.5-1.0 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 421](https://www.doitpoms.ac.uk/miclib/full_record.php?id=421) | [Micrograph 421](https://www.doitpoms.ac.uk/miclib/full_record.php?id=421) : Commercial brass, ~30% Zn, displaying dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (approx), Pb 1.3, Sn 0.5-1.0 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 422](https://www.doitpoms.ac.uk/miclib/full_record.php?id=422) | [Micrograph 422](https://www.doitpoms.ac.uk/miclib/full_record.php?id=422) : Commercial brass, ~30% Zn, displaying dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (approx), Pb 1.3, Sn 0.5-1.0 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 423](https://www.doitpoms.ac.uk/miclib/full_record.php?id=423) | [Micrograph 423](https://www.doitpoms.ac.uk/miclib/full_record.php?id=423) : Commercial brass, ~30% Zn, displaying dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (approx), Pb 1.3, Sn 0.5-1.0 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 424](https://www.doitpoms.ac.uk/miclib/full_record.php?id=424) | [Micrograph 424](https://www.doitpoms.ac.uk/miclib/full_record.php?id=424) : Commercial brass, ~30% Zn, displaying dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (approx), Pb 1.3, Sn 0.5-1.0 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 425](https://www.doitpoms.ac.uk/miclib/full_record.php?id=425) | [Micrograph 425](https://www.doitpoms.ac.uk/miclib/full_record.php?id=425) : Cu 70, Zn 30 (wt%) (pure) brass, dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%) (pure)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 426](https://www.doitpoms.ac.uk/miclib/full_record.php?id=426) | [Micrograph 426](https://www.doitpoms.ac.uk/miclib/full_record.php?id=426) : Cu 70, Zn 30 (wt%) (pure) brass, dendritic solidification System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%) (pure)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 427](https://www.doitpoms.ac.uk/miclib/full_record.php?id=427) | [Micrograph 427](https://www.doitpoms.ac.uk/miclib/full_record.php?id=427) : Cu 70, Zn 30 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 428](https://www.doitpoms.ac.uk/miclib/full_record.php?id=428) | [Micrograph 428](https://www.doitpoms.ac.uk/miclib/full_record.php?id=428) : Cu 70, Zn 30 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 429](https://www.doitpoms.ac.uk/miclib/full_record.php?id=429) | [Micrograph 429](https://www.doitpoms.ac.uk/miclib/full_record.php?id=429) : Cu 70, Zn 30 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 430](https://www.doitpoms.ac.uk/miclib/full_record.php?id=430) | [Micrograph 430](https://www.doitpoms.ac.uk/miclib/full_record.php?id=430) : Cu 70, Zn 30 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 70, Zn 30 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 431](https://www.doitpoms.ac.uk/miclib/full_record.php?id=431) | [Micrograph 431](https://www.doitpoms.ac.uk/miclib/full_record.php?id=431) : Cu 80, Zn 20 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 432](https://www.doitpoms.ac.uk/miclib/full_record.php?id=432) | [Micrograph 432](https://www.doitpoms.ac.uk/miclib/full_record.php?id=432) : Cu 80, Zn 20 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 433](https://www.doitpoms.ac.uk/miclib/full_record.php?id=433) | [Micrograph 433](https://www.doitpoms.ac.uk/miclib/full_record.php?id=433) : Cu 90, Zn 10 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 90, Zn 10 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 434](https://www.doitpoms.ac.uk/miclib/full_record.php?id=434) | [Micrograph 434](https://www.doitpoms.ac.uk/miclib/full_record.php?id=434) : Cu 90, Zn 10 (wt%), recrystallised - annealing twins System: Cu-Zn, Composition: Cu 90, Zn 10 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 435](https://www.doitpoms.ac.uk/miclib/full_record.php?id=435) | [Micrograph 435](https://www.doitpoms.ac.uk/miclib/full_record.php?id=435) : Tough pitch' nearly pure copper, with oxygen impurity  System: Cu, Composition: Cu 99.7 (wt%), some oxygen  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 436](https://www.doitpoms.ac.uk/miclib/full_record.php?id=436) | [Micrograph 436](https://www.doitpoms.ac.uk/miclib/full_record.php?id=436) : Tough pitch' nearly pure copper, with oxygen impurity  System: Cu, Composition: Cu 99.7 (wt%), some oxygen  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 437](https://www.doitpoms.ac.uk/miclib/full_record.php?id=437) | [Micrograph 437](https://www.doitpoms.ac.uk/miclib/full_record.php?id=437) : Cu, Sn 20 (wt%) bronze, exhibiting dendritic solidification System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 438](https://www.doitpoms.ac.uk/miclib/full_record.php?id=438) | [Micrograph 438](https://www.doitpoms.ac.uk/miclib/full_record.php?id=438) : Cu, Sn 20 (wt%) bronze, exhibiting dendritic solidification System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 439](https://www.doitpoms.ac.uk/miclib/full_record.php?id=439) | [Micrograph 439](https://www.doitpoms.ac.uk/miclib/full_record.php?id=439) : a b nickel brass containing 2% lead. System: Cu-Zn, Composition: Cu 46, Zn 42, Ni 10, Pb 2 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 440](https://www.doitpoms.ac.uk/miclib/full_record.php?id=440) | [Micrograph 440](https://www.doitpoms.ac.uk/miclib/full_record.php?id=440) : a b nickel brass containing 2% lead. System: Cu-Zn, Composition: Cu 46, Zn 42, Ni 10, Pb 2 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 441](https://www.doitpoms.ac.uk/miclib/full_record.php?id=441) | [Micrograph 441](https://www.doitpoms.ac.uk/miclib/full_record.php?id=441) : Cu 60, Zn 40 (wt%) brass, Widmanstätten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 442](https://www.doitpoms.ac.uk/miclib/full_record.php?id=442) | [Micrograph 442](https://www.doitpoms.ac.uk/miclib/full_record.php?id=442) : Cu 60, Zn 40 (wt%) brass, Widmanstätten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 443](https://www.doitpoms.ac.uk/miclib/full_record.php?id=443) | [Micrograph 443](https://www.doitpoms.ac.uk/miclib/full_record.php?id=443) : Commercial grade free machining brass - Widmanstätten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%) + Pb trace  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 444](https://www.doitpoms.ac.uk/miclib/full_record.php?id=444) | [Micrograph 444](https://www.doitpoms.ac.uk/miclib/full_record.php?id=444) : Commercial grade free machining brass - Widmanstätten microstructure System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%) + Pb trace  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 445](https://www.doitpoms.ac.uk/miclib/full_record.php?id=445) | [Micrograph 445](https://www.doitpoms.ac.uk/miclib/full_record.php?id=445) : Cast and annealed 40 wt% Zn brass System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%) + Pb trace  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 446](https://www.doitpoms.ac.uk/miclib/full_record.php?id=446) | [Micrograph 446](https://www.doitpoms.ac.uk/miclib/full_record.php?id=446) : Cast and annealed 40 wt% Zn brass System: Cu-Zn, Composition: Cu 60, Zn 40 (wt%) + Pb trace  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 447](https://www.doitpoms.ac.uk/miclib/full_record.php?id=447) | [Micrograph 447](https://www.doitpoms.ac.uk/miclib/full_record.php?id=447) : Cu 65, Zn 35 (wt%) B4 brass, chill cast System: Cu-Zn, Composition: Cu 65, Zn 35 (wt%) (pure)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 448](https://www.doitpoms.ac.uk/miclib/full_record.php?id=448) | [Micrograph 448](https://www.doitpoms.ac.uk/miclib/full_record.php?id=448) : Cu 65, Zn 35 (wt%) B4 brass, chill cast System: Cu-Zn, Composition: Cu 65, Zn 35 (wt%) (pure)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 449](https://www.doitpoms.ac.uk/miclib/full_record.php?id=449) | [Micrograph 449](https://www.doitpoms.ac.uk/miclib/full_record.php?id=449) : Cu 55, Zn 45 (wt%) brass, rapidly cooled System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 450](https://www.doitpoms.ac.uk/miclib/full_record.php?id=450) | [Micrograph 450](https://www.doitpoms.ac.uk/miclib/full_record.php?id=450) : Cu 55, Zn 45 (wt%) brass, rapidly cooled System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 451](https://www.doitpoms.ac.uk/miclib/full_record.php?id=451) | [Micrograph 451](https://www.doitpoms.ac.uk/miclib/full_record.php?id=451) : Cu 55, Zn 45 (wt%) brass, rapidly cooled System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 452](https://www.doitpoms.ac.uk/miclib/full_record.php?id=452) | [Micrograph 452](https://www.doitpoms.ac.uk/miclib/full_record.php?id=452) : Cu 52.5, Zn 47.5 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 52.5, Zn 47.5 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 453](https://www.doitpoms.ac.uk/miclib/full_record.php?id=453) | [Micrograph 453](https://www.doitpoms.ac.uk/miclib/full_record.php?id=453) : Cu 52.5, Zn 47.5 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 52.5, Zn 47.5 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 454](https://www.doitpoms.ac.uk/miclib/full_record.php?id=454) | [Micrograph 454](https://www.doitpoms.ac.uk/miclib/full_record.php?id=454) : Cu 52.5, Zn 47.5 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 52.5, Zn 47.5 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 455](https://www.doitpoms.ac.uk/miclib/full_record.php?id=455) | [Micrograph 455](https://www.doitpoms.ac.uk/miclib/full_record.php?id=455) : Cu 55, Zn 45 (wt%) brass, as cast, dendritic System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 456](https://www.doitpoms.ac.uk/miclib/full_record.php?id=456) | [Micrograph 456](https://www.doitpoms.ac.uk/miclib/full_record.php?id=456) : Cu 55, Zn 45 (wt%) brass, as cast, dendritic System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 457](https://www.doitpoms.ac.uk/miclib/full_record.php?id=457) | [Micrograph 457](https://www.doitpoms.ac.uk/miclib/full_record.php?id=457) : Cu 55, Zn 45 (wt%) brass, as cast, dendritic System: Cu-Zn, Composition: Cu 55, Zn 45 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 458](https://www.doitpoms.ac.uk/miclib/full_record.php?id=458) | [Micrograph 458](https://www.doitpoms.ac.uk/miclib/full_record.php?id=458) : Brass, exhibiting grain boundary nucleation System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 459](https://www.doitpoms.ac.uk/miclib/full_record.php?id=459) | [Micrograph 459](https://www.doitpoms.ac.uk/miclib/full_record.php?id=459) : Brass, exhibiting grain boundary nucleation System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 460](https://www.doitpoms.ac.uk/miclib/full_record.php?id=460) | [Micrograph 460](https://www.doitpoms.ac.uk/miclib/full_record.php?id=460) : Brass, exhibiting grain boundary nucleation System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 468](https://www.doitpoms.ac.uk/miclib/full_record.php?id=468) | [Micrograph 468](https://www.doitpoms.ac.uk/miclib/full_record.php?id=468) : Cu 50, Zn 50 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 469](https://www.doitpoms.ac.uk/miclib/full_record.php?id=469) | [Micrograph 469](https://www.doitpoms.ac.uk/miclib/full_record.php?id=469) : Cu 50, Zn 50 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 470](https://www.doitpoms.ac.uk/miclib/full_record.php?id=470) | [Micrograph 470](https://www.doitpoms.ac.uk/miclib/full_record.php?id=470) : Cu 50, Zn 50 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 471](https://www.doitpoms.ac.uk/miclib/full_record.php?id=471) | [Micrograph 471](https://www.doitpoms.ac.uk/miclib/full_record.php?id=471) : Cu 50, Zn 50 (wt%) brass, as cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 472](https://www.doitpoms.ac.uk/miclib/full_record.php?id=472) | [Micrograph 472](https://www.doitpoms.ac.uk/miclib/full_record.php?id=472) : Cu 50, Zn 50 (wt%) brass, chill cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 473](https://www.doitpoms.ac.uk/miclib/full_record.php?id=473) | [Micrograph 473](https://www.doitpoms.ac.uk/miclib/full_record.php?id=473) : Cu 50, Zn 50 (wt%) brass, chill cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 474](https://www.doitpoms.ac.uk/miclib/full_record.php?id=474) | [Micrograph 474](https://www.doitpoms.ac.uk/miclib/full_record.php?id=474) : Cu 50, Zn 50 (wt%) brass, chill cast System: Cu-Zn, Composition: Cu 50, Zn 50 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 475](https://www.doitpoms.ac.uk/miclib/full_record.php?id=475) | [Micrograph 475](https://www.doitpoms.ac.uk/miclib/full_record.php?id=475) : Cu 55, Zn 45 (wt%) brass, cast annealed System: Cu-Zn, Composition: Cu 52, Zn 45 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 476](https://www.doitpoms.ac.uk/miclib/full_record.php?id=476) | [Micrograph 476](https://www.doitpoms.ac.uk/miclib/full_record.php?id=476) : Cu 55, Zn 45 (wt%) brass, cast annealed System: Cu-Zn, Composition: Cu 52, Zn 45 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 477](https://www.doitpoms.ac.uk/miclib/full_record.php?id=477) | [Micrograph 477](https://www.doitpoms.ac.uk/miclib/full_record.php?id=477) : Cu 80, Zn 20 (wt%) brass, exhibiting dendritic solidification System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 478](https://www.doitpoms.ac.uk/miclib/full_record.php?id=478) | [Micrograph 478](https://www.doitpoms.ac.uk/miclib/full_record.php?id=478) : Cu 80, Zn 20 (wt%) brass, exhibiting dendritic solidification System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 479](https://www.doitpoms.ac.uk/miclib/full_record.php?id=479) | [Micrograph 479](https://www.doitpoms.ac.uk/miclib/full_record.php?id=479) : Cu 80, Zn 20 (wt%) brass, exhibiting dendritic solidification System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 480](https://www.doitpoms.ac.uk/miclib/full_record.php?id=480) | [Micrograph 480](https://www.doitpoms.ac.uk/miclib/full_record.php?id=480) : Cu 80, Zn 20 (wt%) brass, exhibiting dendritic solidification System: Cu-Zn, Composition: Cu 80, Zn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 481](https://www.doitpoms.ac.uk/miclib/full_record.php?id=481) | [Micrograph 481](https://www.doitpoms.ac.uk/miclib/full_record.php?id=481) : Cu 80, Sn 20 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 482](https://www.doitpoms.ac.uk/miclib/full_record.php?id=482) | [Micrograph 482](https://www.doitpoms.ac.uk/miclib/full_record.php?id=482) : Cu 80, Sn 20 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 483](https://www.doitpoms.ac.uk/miclib/full_record.php?id=483) | [Micrograph 483](https://www.doitpoms.ac.uk/miclib/full_record.php?id=483) : Cu 80, Sn 20 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 484](https://www.doitpoms.ac.uk/miclib/full_record.php?id=484) | [Micrograph 484](https://www.doitpoms.ac.uk/miclib/full_record.php?id=484) : Cu 80, Sn 20 (wt%) bronze, exhibiting dendritic solidification System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 485](https://www.doitpoms.ac.uk/miclib/full_record.php?id=485) | [Micrograph 485](https://www.doitpoms.ac.uk/miclib/full_record.php?id=485) : Cu 80, Sn 20 (wt%) bronze, exhibiting dendritic solidification System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 486](https://www.doitpoms.ac.uk/miclib/full_record.php?id=486) | [Micrograph 486](https://www.doitpoms.ac.uk/miclib/full_record.php?id=486) : Cu 80, Sn 20 (wt%) bronze, exhibiting dendritic solidification System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 487](https://www.doitpoms.ac.uk/miclib/full_record.php?id=487) | [Micrograph 487](https://www.doitpoms.ac.uk/miclib/full_record.php?id=487) : Cu 85, Sn 15 (wt%) bronze, annealed at 650°C System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 488](https://www.doitpoms.ac.uk/miclib/full_record.php?id=488) | [Micrograph 488](https://www.doitpoms.ac.uk/miclib/full_record.php?id=488) : Cu 85, Sn 15 (wt%) bronze, annealed at 650°C System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 489](https://www.doitpoms.ac.uk/miclib/full_record.php?id=489) | [Micrograph 489](https://www.doitpoms.ac.uk/miclib/full_record.php?id=489) : Cu 85, Sn 15 (wt%) bronze, annealed at 650°C System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 490](https://www.doitpoms.ac.uk/miclib/full_record.php?id=490) | [Micrograph 490](https://www.doitpoms.ac.uk/miclib/full_record.php?id=490) : Cu 85, Sn 15 (wt%) bronze, annealed System: Cu-Sn, Composition: Cu 85, Sn 15 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 491](https://www.doitpoms.ac.uk/miclib/full_record.php?id=491) | [Micrograph 491](https://www.doitpoms.ac.uk/miclib/full_record.php?id=491) : Cu 70, Sn 30 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 70, Sn 30 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 492](https://www.doitpoms.ac.uk/miclib/full_record.php?id=492) | [Micrograph 492](https://www.doitpoms.ac.uk/miclib/full_record.php?id=492) : Cu 70, Sn 30 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 70, Sn 30 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 493](https://www.doitpoms.ac.uk/miclib/full_record.php?id=493) | [Micrograph 493](https://www.doitpoms.ac.uk/miclib/full_record.php?id=493) : Cu 70, Sn 30 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 70, Sn 30 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 494](https://www.doitpoms.ac.uk/miclib/full_record.php?id=494) | [Micrograph 494](https://www.doitpoms.ac.uk/miclib/full_record.php?id=494) : Cu 90, Sn 10 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 495](https://www.doitpoms.ac.uk/miclib/full_record.php?id=495) | [Micrograph 495](https://www.doitpoms.ac.uk/miclib/full_record.php?id=495) : Cu 90, Sn 10 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 496](https://www.doitpoms.ac.uk/miclib/full_record.php?id=496) | [Micrograph 496](https://www.doitpoms.ac.uk/miclib/full_record.php?id=496) : Cu 90, Sn 10 (wt%) bronze, as cast System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 497](https://www.doitpoms.ac.uk/miclib/full_record.php?id=497) | [Micrograph 497](https://www.doitpoms.ac.uk/miclib/full_record.php?id=497) : Cu 90, Sn 10 (wt%) bronze, cast annealed System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 498](https://www.doitpoms.ac.uk/miclib/full_record.php?id=498) | [Micrograph 498](https://www.doitpoms.ac.uk/miclib/full_record.php?id=498) : Cu 90, Sn 10 (wt%) bronze, cast annealed System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 499](https://www.doitpoms.ac.uk/miclib/full_record.php?id=499) | [Micrograph 499](https://www.doitpoms.ac.uk/miclib/full_record.php?id=499) : Cu 90, Sn 10 (wt%) bronze, cast annealed System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 500](https://www.doitpoms.ac.uk/miclib/full_record.php?id=500) | [Micrograph 500](https://www.doitpoms.ac.uk/miclib/full_record.php?id=500) : Cu - 5% Sn phosphor bronze System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx.)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 501](https://www.doitpoms.ac.uk/miclib/full_record.php?id=501) | [Micrograph 501](https://www.doitpoms.ac.uk/miclib/full_record.php?id=501) : Cu - 5% Sn phosphor bronze System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx.)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 502](https://www.doitpoms.ac.uk/miclib/full_record.php?id=502) | [Micrograph 502](https://www.doitpoms.ac.uk/miclib/full_record.php?id=502) : Cu - 5% Sn phosphor bronze System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx.)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 503](https://www.doitpoms.ac.uk/miclib/full_record.php?id=503) | [Micrograph 503](https://www.doitpoms.ac.uk/miclib/full_record.php?id=503) : Cu - 5% Sn phosphor bronze System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx.)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 504](https://www.doitpoms.ac.uk/miclib/full_record.php?id=504) | [Micrograph 504](https://www.doitpoms.ac.uk/miclib/full_record.php?id=504) : Cu - 5% Sn bronze, cast annealed. System: Cu-Sn, Composition: Cu 95, Sn 5 (wt%),  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 505](https://www.doitpoms.ac.uk/miclib/full_record.php?id=505) | [Micrograph 505](https://www.doitpoms.ac.uk/miclib/full_record.php?id=505) : Cu - 5% Sn bronze, cast annealed. System: Cu-Sn, Composition: Cu 95, Sn 5 (wt%),  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 506](https://www.doitpoms.ac.uk/miclib/full_record.php?id=506) | [Micrograph 506](https://www.doitpoms.ac.uk/miclib/full_record.php?id=506) : Cu - 5% Sn bronze, cast annealed. System: Cu-Sn, Composition: Cu 95, Sn 5 (wt%),  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 507](https://www.doitpoms.ac.uk/miclib/full_record.php?id=507) | [Micrograph 507](https://www.doitpoms.ac.uk/miclib/full_record.php?id=507) : Annealed 5% Sn bronze. System: Cu-Sn, Composition: Cu 95, Sn 5 (wt%),  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 508](https://www.doitpoms.ac.uk/miclib/full_record.php?id=508) | [Micrograph 508](https://www.doitpoms.ac.uk/miclib/full_record.php?id=508) : Annealed 5% Sn bronze. System: Cu-Sn, Composition: Cu 95, Sn 5 (wt%),  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 509](https://www.doitpoms.ac.uk/miclib/full_record.php?id=509) | [Micrograph 509](https://www.doitpoms.ac.uk/miclib/full_record.php?id=509) : D4 Leaded bronze, cored dendrites. System: Cu-Sn, Composition: Cu 85, Sn 10, Pb 5 (wt% approx)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 510](https://www.doitpoms.ac.uk/miclib/full_record.php?id=510) | [Micrograph 510](https://www.doitpoms.ac.uk/miclib/full_record.php?id=510) : D4 Leaded bronze, cored dendrites. System: Cu-Sn, Composition: Cu 85, Sn 10, Pb 5 (wt% approx)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 511](https://www.doitpoms.ac.uk/miclib/full_record.php?id=511) | [Micrograph 511](https://www.doitpoms.ac.uk/miclib/full_record.php?id=511) : D4 Leaded bronze, cored dendrites. System: Cu-Sn, Composition: Cu 85, Sn 10, Pb 5 (wt% approx)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 512](https://www.doitpoms.ac.uk/miclib/full_record.php?id=512) | [Micrograph 512](https://www.doitpoms.ac.uk/miclib/full_record.php?id=512) : Leaded gun metal bronze. System: Cu-Sn, Composition: Cu 85, Sn 5, Zn 5, Pb 5 (wt% approx)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 513](https://www.doitpoms.ac.uk/miclib/full_record.php?id=513) | [Micrograph 513](https://www.doitpoms.ac.uk/miclib/full_record.php?id=513) : Leaded gun metal bronze. System: Cu-Sn, Composition: Cu 85, Sn 5, Zn 5, Pb 5 (wt% approx)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 514](https://www.doitpoms.ac.uk/miclib/full_record.php?id=514) | [Micrograph 514](https://www.doitpoms.ac.uk/miclib/full_record.php?id=514) : Leaded gun metal bronze. System: Cu-Sn, Composition: Cu 85, Sn 5, Zn 5, Pb 5 (wt% approx)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 515](https://www.doitpoms.ac.uk/miclib/full_record.php?id=515) | [Micrograph 515](https://www.doitpoms.ac.uk/miclib/full_record.php?id=515) : Leaded gun metal bronze. System: Cu-Sn, Composition: Cu 85, Sn 5, Zn 5, Pb 5 (wt% approx)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 516](https://www.doitpoms.ac.uk/miclib/full_record.php?id=516) | [Micrograph 516](https://www.doitpoms.ac.uk/miclib/full_record.php?id=516) : Gun metal bronze displaying coring. System: Cu-Sn, Composition: Cu 88, Sn 8, Zn 4 (wt% approx)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 517](https://www.doitpoms.ac.uk/miclib/full_record.php?id=517) | [Micrograph 517](https://www.doitpoms.ac.uk/miclib/full_record.php?id=517) : Gun metal bronze displaying coring. System: Cu-Sn, Composition: Cu 88, Sn 8, Zn 4 (wt% approx)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 518](https://www.doitpoms.ac.uk/miclib/full_record.php?id=518) | [Micrograph 518](https://www.doitpoms.ac.uk/miclib/full_record.php?id=518) : Gun metal bronze displaying coring. System: Cu-Sn, Composition: Cu 88, Sn 8, Zn 4 (wt% approx)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 519](https://www.doitpoms.ac.uk/miclib/full_record.php?id=519) | [Micrograph 519](https://www.doitpoms.ac.uk/miclib/full_record.php?id=519) : Gun metal bronze displaying coring. System: Cu-Sn, Composition: Cu 88, Sn 8, Zn 4 (wt% approx)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 520](https://www.doitpoms.ac.uk/miclib/full_record.php?id=520) | [Micrograph 520](https://www.doitpoms.ac.uk/miclib/full_record.php?id=520) : Cu - 5% Sn phosphor bronze. System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 521](https://www.doitpoms.ac.uk/miclib/full_record.php?id=521) | [Micrograph 521](https://www.doitpoms.ac.uk/miclib/full_record.php?id=521) : Cu - 5% Sn phosphor bronze. System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 522](https://www.doitpoms.ac.uk/miclib/full_record.php?id=522) | [Micrograph 522](https://www.doitpoms.ac.uk/miclib/full_record.php?id=522) : Cu - 5% Sn phosphor bronze. System: Cu-Sn, Composition: Cu 95, Sn 5, P 0.15 (wt% approx)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 523](https://www.doitpoms.ac.uk/miclib/full_record.php?id=523) | [Micrograph 523](https://www.doitpoms.ac.uk/miclib/full_record.php?id=523) : Phosphor bronze exhibiting cored dendrites. System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%) + P trace  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 524](https://www.doitpoms.ac.uk/miclib/full_record.php?id=524) | [Micrograph 524](https://www.doitpoms.ac.uk/miclib/full_record.php?id=524) : Phosphor bronze exhibiting cored dendrites. System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%) + P trace  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 525](https://www.doitpoms.ac.uk/miclib/full_record.php?id=525) | [Micrograph 525](https://www.doitpoms.ac.uk/miclib/full_record.php?id=525) : Phosphor bronze exhibiting cored dendrites. System: Cu-Sn, Composition: Cu 90, Sn 10 (wt%) + P trace  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 526](https://www.doitpoms.ac.uk/miclib/full_record.php?id=526) | [Micrograph 526](https://www.doitpoms.ac.uk/miclib/full_record.php?id=526) : Cast and tempered 20% Sn bronze System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 527](https://www.doitpoms.ac.uk/miclib/full_record.php?id=527) | [Micrograph 527](https://www.doitpoms.ac.uk/miclib/full_record.php?id=527) : Cast and tempered 20% Sn bronze System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 528](https://www.doitpoms.ac.uk/miclib/full_record.php?id=528) | [Micrograph 528](https://www.doitpoms.ac.uk/miclib/full_record.php?id=528) : Cast and tempered 20% Sn bronze System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 529](https://www.doitpoms.ac.uk/miclib/full_record.php?id=529) | [Micrograph 529](https://www.doitpoms.ac.uk/miclib/full_record.php?id=529) : Cast and tempered 20% Sn bronze System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 530](https://www.doitpoms.ac.uk/miclib/full_record.php?id=530) | [Micrograph 530](https://www.doitpoms.ac.uk/miclib/full_record.php?id=530) : Cu - 20% Sn bronze, cast annealed System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 531](https://www.doitpoms.ac.uk/miclib/full_record.php?id=531) | [Micrograph 531](https://www.doitpoms.ac.uk/miclib/full_record.php?id=531) : Cu - 20% Sn bronze, cast annealed System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 532](https://www.doitpoms.ac.uk/miclib/full_record.php?id=532) | [Micrograph 532](https://www.doitpoms.ac.uk/miclib/full_record.php?id=532) : Cu - 20% Sn bronze, cast annealed System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 533](https://www.doitpoms.ac.uk/miclib/full_record.php?id=533) | [Micrograph 533](https://www.doitpoms.ac.uk/miclib/full_record.php?id=533) : Cu - 20% Sn bronze, cast annealed System: Cu-Sn, Composition: Cu 80, Sn 20 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 534](https://www.doitpoms.ac.uk/miclib/full_record.php?id=534) | [Micrograph 534](https://www.doitpoms.ac.uk/miclib/full_record.php?id=534) : Cu - Sn, cast annealed System: Cu-Sn, Composition: Not specified  Reflected light microscopy 800 μm | |
| [Link to full record for micrograph 535](https://www.doitpoms.ac.uk/miclib/full_record.php?id=535) | [Micrograph 535](https://www.doitpoms.ac.uk/miclib/full_record.php?id=535) : Cu - Sn, cast annealed System: Cu-Sn, Composition: Not specified  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 536](https://www.doitpoms.ac.uk/miclib/full_record.php?id=536) | [Micrograph 536](https://www.doitpoms.ac.uk/miclib/full_record.php?id=536) : Cu - Sn, cast annealed System: Cu-Sn, Composition: Not specified  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 537](https://www.doitpoms.ac.uk/miclib/full_record.php?id=537) | [Micrograph 537](https://www.doitpoms.ac.uk/miclib/full_record.php?id=537) : Cu - Sn, cast annealed System: Cu-Sn, Composition: Not specified  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 604](https://www.doitpoms.ac.uk/miclib/full_record.php?id=604) | [Micrograph 604](https://www.doitpoms.ac.uk/miclib/full_record.php?id=604) : Extruded aluminium System: Al, Composition: Commercial purity (99.5%)  Reflected light microscopy, polarised 40 μm | |
| [Link to full record for micrograph 605](https://www.doitpoms.ac.uk/miclib/full_record.php?id=605) | [Micrograph 605](https://www.doitpoms.ac.uk/miclib/full_record.php?id=605) : Fracture surface formed by hot tearing (solidification cracking) System: Al, Composition: Commercial purity (99.5%)  Scanning electron microscopy (SEM) 40 μm | |
| [Link to full record for micrograph 607](https://www.doitpoms.ac.uk/miclib/full_record.php?id=607) | [Micrograph 607](https://www.doitpoms.ac.uk/miclib/full_record.php?id=607) : Fibre fracture in a metal matrix composite System: Al, Composition: Commercial purity (99.5%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 608](https://www.doitpoms.ac.uk/miclib/full_record.php?id=608) | [Micrograph 608](https://www.doitpoms.ac.uk/miclib/full_record.php?id=608) : Channelling contrast TEM image of subgrains of extruded aluminium System: Al, Composition: Commercial purity (99.5%)  Transmission electron microscopy (TEM) 600 nm | |
| [Link to full record for micrograph 609](https://www.doitpoms.ac.uk/miclib/full_record.php?id=609) | [Micrograph 609](https://www.doitpoms.ac.uk/miclib/full_record.php?id=609) : The grain structure of extruded aluminium System: Al, Composition: Commercial purity (99.5%)  Reflected light microscopy, polarised 40 μm | |
| [Link to full record for micrograph 613](https://www.doitpoms.ac.uk/miclib/full_record.php?id=613) | [Micrograph 613](https://www.doitpoms.ac.uk/miclib/full_record.php?id=613) : Facetted aluminium dendrites System: Al-Sn, Composition: Al 15, Sn 85 (wt%)  Reflected light microscopy 80 μm | |
| [Link to full record for micrograph 614](https://www.doitpoms.ac.uk/miclib/full_record.php?id=614) | [Micrograph 614](https://www.doitpoms.ac.uk/miclib/full_record.php?id=614) : Rapid solidification in an atomised droplet System: Al-Mg, Composition: Al 90, Mg 10 (wt%)  Transmission electron microscopy (TEM) 500 nm | |
| [Link to full record for micrograph 615](https://www.doitpoms.ac.uk/miclib/full_record.php?id=615) | [Micrograph 615](https://www.doitpoms.ac.uk/miclib/full_record.php?id=615) : Cross-section of an aluminium casting System: Al, Composition: Commercial purity (99.5%)  Reflected light microscopy 10 mm | |
| [Link to full record for micrograph 617](https://www.doitpoms.ac.uk/miclib/full_record.php?id=617) | [Micrograph 617](https://www.doitpoms.ac.uk/miclib/full_record.php?id=617) : Deeply etched Co-dendrites System: Co-Sm-Cu, Composition: Co 70, Sm 10, Cu 20 (at%)  Scanning electron microscopy (SEM) 80 μm | |
| [Link to full record for micrograph 629](https://www.doitpoms.ac.uk/miclib/full_record.php?id=629) | [Micrograph 629](https://www.doitpoms.ac.uk/miclib/full_record.php?id=629) : FORMGRIP closed cell aluminium foam  System: Al, Composition: Not specified  Photography (no microscope) 6 mm | |
| [Link to full record for micrograph 630](https://www.doitpoms.ac.uk/miclib/full_record.php?id=630) | [Micrograph 630](https://www.doitpoms.ac.uk/miclib/full_record.php?id=630) : FOAMCARP closed cell aluminium foam  System: Al, Composition: Not specified  Photography (no microscope) 6 mm | |
| [Link to full record for micrograph 631](https://www.doitpoms.ac.uk/miclib/full_record.php?id=631) | [Micrograph 631](https://www.doitpoms.ac.uk/miclib/full_record.php?id=631) : Coarse open celled aluminium foam produced by infiltration of sintered salt (FOAM-U-LIKE) System: Al, Composition: Not specified  Photography (no microscope) 6 mm | |
| [Link to full record for micrograph 632](https://www.doitpoms.ac.uk/miclib/full_record.php?id=632) | [Micrograph 632](https://www.doitpoms.ac.uk/miclib/full_record.php?id=632) : Open-celled aluminium foam System: Al, Composition: Not specified  Photography (no microscope) 8 mm | |
| [Link to full record for micrograph 633](https://www.doitpoms.ac.uk/miclib/full_record.php?id=633) | [Micrograph 633](https://www.doitpoms.ac.uk/miclib/full_record.php?id=633) : Cross-section of an aluminium foam slab produced by gas injection System: Al, Composition: Not specified  Photography (no microscope) 10 mm | |
| [Link to full record for micrograph 634](https://www.doitpoms.ac.uk/miclib/full_record.php?id=634) | [Micrograph 634](https://www.doitpoms.ac.uk/miclib/full_record.php?id=634) : Solid-gas eutectic solidification (Gasar) aluminium foam System: Al, Composition: Not specified  Photography (no microscope) 120 μm | |
| [Link to full record for micrograph 635](https://www.doitpoms.ac.uk/miclib/full_record.php?id=635) | [Micrograph 635](https://www.doitpoms.ac.uk/miclib/full_record.php?id=635) : Open celled aluminium foam produced by infiltration of sintered salt System: Al, Composition: Not specified  Scanning electron microscopy (SEM) 400 μm | |
| [Link to full record for micrograph 636](https://www.doitpoms.ac.uk/miclib/full_record.php?id=636) | [Micrograph 636](https://www.doitpoms.ac.uk/miclib/full_record.php?id=636) : Alporas' closed cell aluminium foam  System: Al, Composition: Not specified  Photography (no microscope) 6 mm | |
| [Link to full record for micrograph 656](https://www.doitpoms.ac.uk/miclib/full_record.php?id=656) | [Micrograph 656](https://www.doitpoms.ac.uk/miclib/full_record.php?id=656) : Al, commercial purity System: Al, Composition: Not specified  Reflected light microscopy 10 mm | |
| [Link to full record for micrograph 657](https://www.doitpoms.ac.uk/miclib/full_record.php?id=657) | [Micrograph 657](https://www.doitpoms.ac.uk/miclib/full_record.php?id=657) : Al-4 wt% Cu, age hardened alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 658](https://www.doitpoms.ac.uk/miclib/full_record.php?id=658) | [Micrograph 658](https://www.doitpoms.ac.uk/miclib/full_record.php?id=658) : Al-4 wt% Cu, over aged alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 659](https://www.doitpoms.ac.uk/miclib/full_record.php?id=659) | [Micrograph 659](https://www.doitpoms.ac.uk/miclib/full_record.php?id=659) : Al-4 wt% Cu, over aged alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 660](https://www.doitpoms.ac.uk/miclib/full_record.php?id=660) | [Micrograph 660](https://www.doitpoms.ac.uk/miclib/full_record.php?id=660) : Al-4 wt% Cu, over aged alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 661](https://www.doitpoms.ac.uk/miclib/full_record.php?id=661) | [Micrograph 661](https://www.doitpoms.ac.uk/miclib/full_record.php?id=661) : Al-4 wt% Cu, over aged alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 662](https://www.doitpoms.ac.uk/miclib/full_record.php?id=662) | [Micrograph 662](https://www.doitpoms.ac.uk/miclib/full_record.php?id=662) : Al-4 wt% Cu, over aged alloy System: Al-Cu, Composition: Al 96, Cu 4 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 665](https://www.doitpoms.ac.uk/miclib/full_record.php?id=665) | [Micrograph 665](https://www.doitpoms.ac.uk/miclib/full_record.php?id=665) : Al-90 wt% Cu (bronze) System: Al-Cu, Composition: Al 10, Cu 90 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 666](https://www.doitpoms.ac.uk/miclib/full_record.php?id=666) | [Micrograph 666](https://www.doitpoms.ac.uk/miclib/full_record.php?id=666) : Al-90 wt% Cu (bronze) System: Al-Cu, Composition: Al 10, Cu 90 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 667](https://www.doitpoms.ac.uk/miclib/full_record.php?id=667) | [Micrograph 667](https://www.doitpoms.ac.uk/miclib/full_record.php?id=667) : Al-90 wt% Cu (bronze) System: Al-Cu, Composition: Al 10, Cu 90 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 668](https://www.doitpoms.ac.uk/miclib/full_record.php?id=668) | [Micrograph 668](https://www.doitpoms.ac.uk/miclib/full_record.php?id=668) : Al-90 wt% Cu (bronze) System: Al-Cu, Composition: Al 10, Cu 90 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 669](https://www.doitpoms.ac.uk/miclib/full_record.php?id=669) | [Micrograph 669](https://www.doitpoms.ac.uk/miclib/full_record.php?id=669) : Al-90 wt% Cu (bronze) System: Al-Cu, Composition: Al 10, Cu 90 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 695](https://www.doitpoms.ac.uk/miclib/full_record.php?id=695) | [Micrograph 695](https://www.doitpoms.ac.uk/miclib/full_record.php?id=695) : Cu-4.5 wt% P System: Cu-P, Composition: Cu 95.5, P 4.5 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 696](https://www.doitpoms.ac.uk/miclib/full_record.php?id=696) | [Micrograph 696](https://www.doitpoms.ac.uk/miclib/full_record.php?id=696) : Cu-4.5 wt% P System: Cu-P, Composition: Cu 95.5, P 4.5 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 697](https://www.doitpoms.ac.uk/miclib/full_record.php?id=697) | [Micrograph 697](https://www.doitpoms.ac.uk/miclib/full_record.php?id=697) : Cu-4.5 wt% P System: Cu-P, Composition: Cu 95.5, P 4.5 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 698](https://www.doitpoms.ac.uk/miclib/full_record.php?id=698) | [Micrograph 698](https://www.doitpoms.ac.uk/miclib/full_record.php?id=698) : Cu-4.5 wt% P System: Cu-P, Composition: Cu 95.5, P 4.5 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 699](https://www.doitpoms.ac.uk/miclib/full_record.php?id=699) | [Micrograph 699](https://www.doitpoms.ac.uk/miclib/full_record.php?id=699) : Cu-4.5 wt% P System: Cu-P, Composition: Cu 95.5, P 4.5 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 700](https://www.doitpoms.ac.uk/miclib/full_record.php?id=700) | [Micrograph 700](https://www.doitpoms.ac.uk/miclib/full_record.php?id=700) : Cu-10.5 wt% P System: Cu-P, Composition: Cu 89.5, P 10.5 (wt%)  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 701](https://www.doitpoms.ac.uk/miclib/full_record.php?id=701) | [Micrograph 701](https://www.doitpoms.ac.uk/miclib/full_record.php?id=701) : Cu-10.5 wt% P System: Cu-P, Composition: Cu 89.5, P 10.5 (wt%)  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 702](https://www.doitpoms.ac.uk/miclib/full_record.php?id=702) | [Micrograph 702](https://www.doitpoms.ac.uk/miclib/full_record.php?id=702) : Cu-10.5 wt% P System: Cu-P, Composition: Cu 89.5, P 10.5 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 703](https://www.doitpoms.ac.uk/miclib/full_record.php?id=703) | [Micrograph 703](https://www.doitpoms.ac.uk/miclib/full_record.php?id=703) : Cu-10.5 wt% P System: Cu-P, Composition: Cu 89.5, P 10.5 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 704](https://www.doitpoms.ac.uk/miclib/full_record.php?id=704) | [Micrograph 704](https://www.doitpoms.ac.uk/miclib/full_record.php?id=704) : Cu-10.5 wt% P System: Cu-P, Composition: Cu 89.5, P 10.5 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 705](https://www.doitpoms.ac.uk/miclib/full_record.php?id=705) | [Micrograph 705](https://www.doitpoms.ac.uk/miclib/full_record.php?id=705) : Cu-? wt% P System: Cu-P, Composition: Not specified  Reflected light microscopy 400 μm | |
| [Link to full record for micrograph 706](https://www.doitpoms.ac.uk/miclib/full_record.php?id=706) | [Micrograph 706](https://www.doitpoms.ac.uk/miclib/full_record.php?id=706) : Cu-? wt% P System: Cu-P, Composition: Not specified  Reflected light microscopy 200 μm | |
| [Link to full record for micrograph 707](https://www.doitpoms.ac.uk/miclib/full_record.php?id=707) | [Micrograph 707](https://www.doitpoms.ac.uk/miclib/full_record.php?id=707) : Cu-? wt% P System: Cu-P, Composition: Not specified  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 708](https://www.doitpoms.ac.uk/miclib/full_record.php?id=708) | [Micrograph 708](https://www.doitpoms.ac.uk/miclib/full_record.php?id=708) : Cu-? wt% P System: Cu-P, Composition: Not specified  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 709](https://www.doitpoms.ac.uk/miclib/full_record.php?id=709) | [Micrograph 709](https://www.doitpoms.ac.uk/miclib/full_record.php?id=709) : Cu-? wt% P System: Cu-P, Composition: Not specified  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 710](https://www.doitpoms.ac.uk/miclib/full_record.php?id=710) | [Micrograph 710](https://www.doitpoms.ac.uk/miclib/full_record.php?id=710) : Wrought-grade aluminium alloy (Al-Mg-Fe-Si containing < 1wt.% of each solute); refined with TiB2 particles. Deformation of grain structure is due to cutting of sample with scissors. System: Al-Mg-Fe-Si, Composition: Not specified  Cross-polarised light microscopy 400 μm | |
| [Link to full record for micrograph 711](https://www.doitpoms.ac.uk/miclib/full_record.php?id=711) | [Micrograph 711](https://www.doitpoms.ac.uk/miclib/full_record.php?id=711) : As-cast wrought-grade aluminium alloy (Al-Mg-Fe-Si containing < 1wt.% of each solute). No addition of grain refinement particles (e.g. TiB2). System: Al-Mg-Fe-Si, Composition: Not specified  Cross-polarised light microscopy 1 mm | |
| [Link to full record for micrograph 712](https://www.doitpoms.ac.uk/miclib/full_record.php?id=712) | [Micrograph 712](https://www.doitpoms.ac.uk/miclib/full_record.php?id=712) : As-cast wrought-grade aluminium alloy (Al-Mg-Fe-Si containing < 1wt.% of each solute). Addition of TiB2 particles facilitates the formation of a fine, equiaxed grain structure (grain refinement). System: Al-Mg-Fe-Si, Composition: Not specified  Cross-polarised light microscopy 400 μm | |
| [Link to full record for micrograph 713](https://www.doitpoms.ac.uk/miclib/full_record.php?id=713) | [Micrograph 713](https://www.doitpoms.ac.uk/miclib/full_record.php?id=713) : IN718 nickel-based superalloy held for 1 minute at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 20 μm | |
| [Link to full record for micrograph 714](https://www.doitpoms.ac.uk/miclib/full_record.php?id=714) | [Micrograph 714](https://www.doitpoms.ac.uk/miclib/full_record.php?id=714) : IN718 nickel-based superalloy held for 20 minutes at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 20 μm | |
| [Link to full record for micrograph 715](https://www.doitpoms.ac.uk/miclib/full_record.php?id=715) | [Micrograph 715](https://www.doitpoms.ac.uk/miclib/full_record.php?id=715) : IN718 nickel-based superalloy held for 1 hour at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 716](https://www.doitpoms.ac.uk/miclib/full_record.php?id=716) | [Micrograph 716](https://www.doitpoms.ac.uk/miclib/full_record.php?id=716) : IN718 nickel-based superalloy held for 3 hours at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 717](https://www.doitpoms.ac.uk/miclib/full_record.php?id=717) | [Micrograph 717](https://www.doitpoms.ac.uk/miclib/full_record.php?id=717) : IN718 nickel-based superalloy held for 6 hours at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 718](https://www.doitpoms.ac.uk/miclib/full_record.php?id=718) | [Micrograph 718](https://www.doitpoms.ac.uk/miclib/full_record.php?id=718) : IN718 nickel-based superalloy held for 24 hours at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 719](https://www.doitpoms.ac.uk/miclib/full_record.php?id=719) | [Micrograph 719](https://www.doitpoms.ac.uk/miclib/full_record.php?id=719) : IN718 nickel-based superalloy held for 48 hours at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 720](https://www.doitpoms.ac.uk/miclib/full_record.php?id=720) | [Micrograph 720](https://www.doitpoms.ac.uk/miclib/full_record.php?id=720) : IN718 nickel-based superalloy held for 72 hours at 850°C System: Ni-X, Composition: Ni 53, Fe 19, Cr 18, Nb 5 (wt% approx) + small amounts of Ti, Mo, Co, Al  Reflected light microscopy, cross-polarised, with Nomarski filter 25 μm | |
| [Link to full record for micrograph 721](https://www.doitpoms.ac.uk/miclib/full_record.php?id=721) | [Micrograph 721](https://www.doitpoms.ac.uk/miclib/full_record.php?id=721) : Ni-Superalloy System: Ni-X, Composition: Ni, Al, Re, W, Ta, Cr, Co, Ru (Ni-Superalloy)  Field emission gun scanning electron microscopy (FEGSEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 722](https://www.doitpoms.ac.uk/miclib/full_record.php?id=722) | [Micrograph 722](https://www.doitpoms.ac.uk/miclib/full_record.php?id=722) : Ni-Superalloy System: Ni-X, Composition: Ni, Al, Re, W, Ta, Cr, Co, Ru (Ni-Superalloy)  Field emission gun scanning electron microscopy (FEGSEM) in secondary electron imaging (SEI) mode 6 μm | |
| [Link to full record for micrograph 723](https://www.doitpoms.ac.uk/miclib/full_record.php?id=723) | [Micrograph 723](https://www.doitpoms.ac.uk/miclib/full_record.php?id=723) : Ni-Superalloy System: Ni-X, Composition: Ni, Al, Re, W, Ta, Cr, Co, Ru (Ni-Superalloy)  Transmission electron microscopy (TEM) 200 nm | |
| [Link to full record for micrograph 724](https://www.doitpoms.ac.uk/miclib/full_record.php?id=724) | [Micrograph 724](https://www.doitpoms.ac.uk/miclib/full_record.php?id=724) : Ni-Superalloy, as-extruded microstructure System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 725](https://www.doitpoms.ac.uk/miclib/full_record.php?id=725) | [Micrograph 725](https://www.doitpoms.ac.uk/miclib/full_record.php?id=725) : Ni-Superalloy, as-extruded microstructure System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 726](https://www.doitpoms.ac.uk/miclib/full_record.php?id=726) | [Micrograph 726](https://www.doitpoms.ac.uk/miclib/full_record.php?id=726) : Ni-Superalloy, heat treated above gamma-prime solvus System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 727](https://www.doitpoms.ac.uk/miclib/full_record.php?id=727) | [Micrograph 727](https://www.doitpoms.ac.uk/miclib/full_record.php?id=727) : Ni-Superalloy, heat treated above gamma-prime solvus System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Field emission gun scanning electron microscopy (FEGSEM) in secondary electron imaging (SEI) mode 100 nm | |
| [Link to full record for micrograph 728](https://www.doitpoms.ac.uk/miclib/full_record.php?id=728) | [Micrograph 728](https://www.doitpoms.ac.uk/miclib/full_record.php?id=728) : Ni-Superalloy, heat treated above gamma-prime solvus System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 729](https://www.doitpoms.ac.uk/miclib/full_record.php?id=729) | [Micrograph 729](https://www.doitpoms.ac.uk/miclib/full_record.php?id=729) : Ni-Superalloy, exposed microstructure System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 730](https://www.doitpoms.ac.uk/miclib/full_record.php?id=730) | [Micrograph 730](https://www.doitpoms.ac.uk/miclib/full_record.php?id=730) : Magnesium alloy System: Mg-Zn, Composition: Mg 94.05, Zn 5.62, Zr 0.19, Ce 0.10, Nd 0.03 (wt%) (RZ5 Alloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 200 μm | |
| [Link to full record for micrograph 731](https://www.doitpoms.ac.uk/miclib/full_record.php?id=731) | [Micrograph 731](https://www.doitpoms.ac.uk/miclib/full_record.php?id=731) : Metal matrix composite of magnesium and alumina fibres System: Mg-Zn, Composition: Mg 94.05, Zn 5.62, Zr 0.19, Ce 0.10, Nd 0.03 (wt%) (RZ5 Alloy), reinforced with Alumina fibres with a volume fraction of 14%  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 10 μm | |
| [Link to full record for micrograph 732](https://www.doitpoms.ac.uk/miclib/full_record.php?id=732) | [Micrograph 732](https://www.doitpoms.ac.uk/miclib/full_record.php?id=732) : Magnesium alloy System: Mg-Zn, Composition: Mg 94.05, Zn 5.62, Zr 0.19, Ce 0.10, Nd 0.03 (wt%) (RZ5 Alloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 200 μm | |
| [Link to full record for micrograph 733](https://www.doitpoms.ac.uk/miclib/full_record.php?id=733) | [Micrograph 733](https://www.doitpoms.ac.uk/miclib/full_record.php?id=733) : Magnesium alloy, fracture surface System: Mg-Zn, Composition: Mg 94.05, Zn 5.62, Zr 0.19, Ce 0.10, Nd 0.03 (wt%) (RZ5 Alloy)  Scanning electron microscopy (SEM) in backscattered electron imaging (BEI) mode 20 μm | |
| [Link to full record for micrograph 734](https://www.doitpoms.ac.uk/miclib/full_record.php?id=734) | [Micrograph 734](https://www.doitpoms.ac.uk/miclib/full_record.php?id=734) : Ni-Superalloy, as-extruded microstructure System: Ni-X, Composition: Ni, Cr 14.4-15.2, Co 13-18, Mo 3.5-4.5, Al 3.0-3.3, Ti 4.2-4.8, Ta 2.5, Zr 0.05-0.07, C 0.05, B 0.01-0.03 (wt%) (Ni-Superalloy)  Transmission electron microscopy (TEM) of carbon replica 20 μm | |
| [Link to full record for micrograph 735](https://www.doitpoms.ac.uk/miclib/full_record.php?id=735) | [Micrograph 735](https://www.doitpoms.ac.uk/miclib/full_record.php?id=735) : Dual-phase steel water quenched from 750°C System: Fe-C-X, Composition: Fe, C 0.15, Mn 1.5, Si 1.5 (wt%)  Reflected light microscopy 6 μm | |
| [Link to full record for micrograph 736](https://www.doitpoms.ac.uk/miclib/full_record.php?id=736) | [Micrograph 736](https://www.doitpoms.ac.uk/miclib/full_record.php?id=736) : Dual-phase steel water quenched from 775°C System: Fe-C-X, Composition: Fe, C 0.15, Mn 1.5, Si 1.5 (wt%)  Reflected light microscopy 5 μm | |
| [Link to full record for micrograph 737](https://www.doitpoms.ac.uk/miclib/full_record.php?id=737) | [Micrograph 737](https://www.doitpoms.ac.uk/miclib/full_record.php?id=737) : Dual-phase steel water quenched from 800°C System: Fe-C-X, Composition: Fe, C 0.15, Mn 1.5, Si 1.5 (wt%)  Reflected light microscopy 6 μm | |
| [Link to full record for micrograph 738](https://www.doitpoms.ac.uk/miclib/full_record.php?id=738) | [Micrograph 738](https://www.doitpoms.ac.uk/miclib/full_record.php?id=738) : A medium carbon low alloyed structural steel System: Fe-C-X, Composition: Fe, C medium (wt%), with small alloy addition  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 739](https://www.doitpoms.ac.uk/miclib/full_record.php?id=739) | [Micrograph 739](https://www.doitpoms.ac.uk/miclib/full_record.php?id=739) : TRIP steel annealed at 775°C for 5 mins and then hold at 400°C for 150s for austenite stabilization System: Fe-C-X, Composition: Fe, C 0.15, Mn 1.5, Si 1.5 (wt%)  Reflected light microscopy 6 μm | |
| [Link to full record for micrograph 740](https://www.doitpoms.ac.uk/miclib/full_record.php?id=740) | [Micrograph 740](https://www.doitpoms.ac.uk/miclib/full_record.php?id=740) : TRIP steel annealed at 775°C for 5 mins and then hold at 400°C for 40s for austenite stabilization System: Fe-C-X, Composition: Fe, C 0.15, Mn 1.5, Si 1.5 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 744](https://www.doitpoms.ac.uk/miclib/full_record.php?id=744) | [Micrograph 744](https://www.doitpoms.ac.uk/miclib/full_record.php?id=744) : Bi 10, Sn 90 (wt%) System: Bi-Sn, Composition: Bi 10, Sn 90 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 745](https://www.doitpoms.ac.uk/miclib/full_record.php?id=745) | [Micrograph 745](https://www.doitpoms.ac.uk/miclib/full_record.php?id=745) : Bi 10, Sn 90 (wt%) System: Bi-Sn, Composition: Bi 10, Sn 90 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 746](https://www.doitpoms.ac.uk/miclib/full_record.php?id=746) | [Micrograph 746](https://www.doitpoms.ac.uk/miclib/full_record.php?id=746) : Bi 10, Sn 90 (wt%) System: Bi-Sn, Composition: Bi 10, Sn 90 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 747](https://www.doitpoms.ac.uk/miclib/full_record.php?id=747) | [Micrograph 747](https://www.doitpoms.ac.uk/miclib/full_record.php?id=747) : Bi 20, Sn 80 (wt%) System: Bi-Sn, Composition: Bi 20, Sn 80 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 748](https://www.doitpoms.ac.uk/miclib/full_record.php?id=748) | [Micrograph 748](https://www.doitpoms.ac.uk/miclib/full_record.php?id=748) : Bi 20, Sn 80 (wt%) System: Bi-Sn, Composition: Bi 20, Sn 80 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 749](https://www.doitpoms.ac.uk/miclib/full_record.php?id=749) | [Micrograph 749](https://www.doitpoms.ac.uk/miclib/full_record.php?id=749) : Bi 20, Sn 80 (wt%) System: Bi-Sn, Composition: Bi 20, Sn 80 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 750](https://www.doitpoms.ac.uk/miclib/full_record.php?id=750) | [Micrograph 750](https://www.doitpoms.ac.uk/miclib/full_record.php?id=750) : Bi 30, Sn 70 (wt%) System: Bi-Sn, Composition: Bi 30, Sn 70 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 751](https://www.doitpoms.ac.uk/miclib/full_record.php?id=751) | [Micrograph 751](https://www.doitpoms.ac.uk/miclib/full_record.php?id=751) : Bi 30, Sn 70 (wt%) System: Bi-Sn, Composition: Bi 30, Sn 70 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 752](https://www.doitpoms.ac.uk/miclib/full_record.php?id=752) | [Micrograph 752](https://www.doitpoms.ac.uk/miclib/full_record.php?id=752) : Bi 30, Sn 70 (wt%) System: Bi-Sn, Composition: Bi 30, Sn 70 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 753](https://www.doitpoms.ac.uk/miclib/full_record.php?id=753) | [Micrograph 753](https://www.doitpoms.ac.uk/miclib/full_record.php?id=753) : Bi 40, Sn 60 (wt%) System: Bi-Sn, Composition: Bi 40, Sn 60 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 754](https://www.doitpoms.ac.uk/miclib/full_record.php?id=754) | [Micrograph 754](https://www.doitpoms.ac.uk/miclib/full_record.php?id=754) : Bi 40, Sn 60 (wt%) System: Bi-Sn, Composition: Bi 40, Sn 60 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 755](https://www.doitpoms.ac.uk/miclib/full_record.php?id=755) | [Micrograph 755](https://www.doitpoms.ac.uk/miclib/full_record.php?id=755) : Bi 40, Sn 60 (wt%) System: Bi-Sn, Composition: Bi 40, Sn 60 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 756](https://www.doitpoms.ac.uk/miclib/full_record.php?id=756) | [Micrograph 756](https://www.doitpoms.ac.uk/miclib/full_record.php?id=756) : Bi 50, Sn 50 (wt%) System: Bi-Sn, Composition: Bi 50, Sn 50 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 757](https://www.doitpoms.ac.uk/miclib/full_record.php?id=757) | [Micrograph 757](https://www.doitpoms.ac.uk/miclib/full_record.php?id=757) : Bi 50, Sn 50 (wt%) System: Bi-Sn, Composition: Bi 50, Sn 50 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 758](https://www.doitpoms.ac.uk/miclib/full_record.php?id=758) | [Micrograph 758](https://www.doitpoms.ac.uk/miclib/full_record.php?id=758) : Bi 50, Sn 50 (wt%) System: Bi-Sn, Composition: Bi 50, Sn 50 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 759](https://www.doitpoms.ac.uk/miclib/full_record.php?id=759) | [Micrograph 759](https://www.doitpoms.ac.uk/miclib/full_record.php?id=759) : Bi 60, Sn 40 (wt%) System: Bi-Sn, Composition: Bi 60, Sn 40 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 760](https://www.doitpoms.ac.uk/miclib/full_record.php?id=760) | [Micrograph 760](https://www.doitpoms.ac.uk/miclib/full_record.php?id=760) : Bi 60, Sn 40 (wt%) System: Bi-Sn, Composition: Bi 60, Sn 40 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 761](https://www.doitpoms.ac.uk/miclib/full_record.php?id=761) | [Micrograph 761](https://www.doitpoms.ac.uk/miclib/full_record.php?id=761) : Bi 60, Sn 40 (wt%) System: Bi-Sn, Composition: Bi 60, Sn 40 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 762](https://www.doitpoms.ac.uk/miclib/full_record.php?id=762) | [Micrograph 762](https://www.doitpoms.ac.uk/miclib/full_record.php?id=762) : Bi 70, Sn 30 (wt%) System: Bi-Sn, Composition: Bi 70, Sn 30 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 763](https://www.doitpoms.ac.uk/miclib/full_record.php?id=763) | [Micrograph 763](https://www.doitpoms.ac.uk/miclib/full_record.php?id=763) : Bi 70, Sn 30 (wt%) System: Bi-Sn, Composition: Bi 70, Sn 30 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 764](https://www.doitpoms.ac.uk/miclib/full_record.php?id=764) | [Micrograph 764](https://www.doitpoms.ac.uk/miclib/full_record.php?id=764) : Bi 70, Sn 30 (wt%) System: Bi-Sn, Composition: Bi 70, Sn 30 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 765](https://www.doitpoms.ac.uk/miclib/full_record.php?id=765) | [Micrograph 765](https://www.doitpoms.ac.uk/miclib/full_record.php?id=765) : Bi 80, Sn 20 (wt%) System: Bi-Sn, Composition: Bi 80, Sn 20 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 766](https://www.doitpoms.ac.uk/miclib/full_record.php?id=766) | [Micrograph 766](https://www.doitpoms.ac.uk/miclib/full_record.php?id=766) : Bi 80, Sn 20 (wt%) System: Bi-Sn, Composition: Bi 80, Sn 20 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 767](https://www.doitpoms.ac.uk/miclib/full_record.php?id=767) | [Micrograph 767](https://www.doitpoms.ac.uk/miclib/full_record.php?id=767) : Bi 80, Sn 20 (wt%) System: Bi-Sn, Composition: Bi 80, Sn 20 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 768](https://www.doitpoms.ac.uk/miclib/full_record.php?id=768) | [Micrograph 768](https://www.doitpoms.ac.uk/miclib/full_record.php?id=768) : Bi 90, Sn 10 (wt%) System: Bi-Sn, Composition: Bi 90, Sn 10 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 300 μm | |
| [Link to full record for micrograph 769](https://www.doitpoms.ac.uk/miclib/full_record.php?id=769) | [Micrograph 769](https://www.doitpoms.ac.uk/miclib/full_record.php?id=769) : Bi 90, Sn 10 (wt%) System: Bi-Sn, Composition: Bi 90, Sn 10 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 100 μm | |
| [Link to full record for micrograph 770](https://www.doitpoms.ac.uk/miclib/full_record.php?id=770) | [Micrograph 770](https://www.doitpoms.ac.uk/miclib/full_record.php?id=770) : Bi 90, Sn 10 (wt%) System: Bi-Sn, Composition: Bi 90, Sn 10 (wt%)  Scanning electron microscopy (SEM) in secondary electron imaging (SEI) mode 10 μm | |
| [Link to full record for micrograph 771](https://www.doitpoms.ac.uk/miclib/full_record.php?id=771) | [Micrograph 771](https://www.doitpoms.ac.uk/miclib/full_record.php?id=771) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 772](https://www.doitpoms.ac.uk/miclib/full_record.php?id=772) | [Micrograph 772](https://www.doitpoms.ac.uk/miclib/full_record.php?id=772) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 773](https://www.doitpoms.ac.uk/miclib/full_record.php?id=773) | [Micrograph 773](https://www.doitpoms.ac.uk/miclib/full_record.php?id=773) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 774](https://www.doitpoms.ac.uk/miclib/full_record.php?id=774) | [Micrograph 774](https://www.doitpoms.ac.uk/miclib/full_record.php?id=774) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 775](https://www.doitpoms.ac.uk/miclib/full_record.php?id=775) | [Micrograph 775](https://www.doitpoms.ac.uk/miclib/full_record.php?id=775) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 776](https://www.doitpoms.ac.uk/miclib/full_record.php?id=776) | [Micrograph 776](https://www.doitpoms.ac.uk/miclib/full_record.php?id=776) : Austenitic stainless steel System: Fe-C-X, Composition: Stainless steel  Transmission electron microscopy (TEM) 2 μm | |
| [Link to full record for micrograph 777](https://www.doitpoms.ac.uk/miclib/full_record.php?id=777) | [Micrograph 777](https://www.doitpoms.ac.uk/miclib/full_record.php?id=777) : Grey cast iron (flake graphite) System: Fe-C-X, Composition: Fe, C 3.2, Si 2.5 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 778](https://www.doitpoms.ac.uk/miclib/full_record.php?id=778) | [Micrograph 778](https://www.doitpoms.ac.uk/miclib/full_record.php?id=778) : Grey cast iron (flake graphite) System: Fe-C-X, Composition: Fe, C 3.2, Si 2.5 (wt%)  Reflected light microscopy 40 μm | |
| [Link to full record for micrograph 779](https://www.doitpoms.ac.uk/miclib/full_record.php?id=779) | [Micrograph 779](https://www.doitpoms.ac.uk/miclib/full_record.php?id=779) : Spheroidal graphite cast iron System: Fe-C-X, Composition: Fe, C 3.2, Si 2.5, Mg 0.05 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 780](https://www.doitpoms.ac.uk/miclib/full_record.php?id=780) | [Micrograph 780](https://www.doitpoms.ac.uk/miclib/full_record.php?id=780) : Heat treated spheroidal graphite cast iron System: Fe-C-X, Composition: Fe, C 3.2, Si 2.5, Mg 0.05 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 781](https://www.doitpoms.ac.uk/miclib/full_record.php?id=781) | [Micrograph 781](https://www.doitpoms.ac.uk/miclib/full_record.php?id=781) : Heat treated spheroidal graphite cast iron System: Fe-C-X, Composition: Fe, C 3.2, Si 2.5, Mg 0.05 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 782](https://www.doitpoms.ac.uk/miclib/full_record.php?id=782) | [Micrograph 782](https://www.doitpoms.ac.uk/miclib/full_record.php?id=782) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 783](https://www.doitpoms.ac.uk/miclib/full_record.php?id=783) | [Micrograph 783](https://www.doitpoms.ac.uk/miclib/full_record.php?id=783) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 784](https://www.doitpoms.ac.uk/miclib/full_record.php?id=784) | [Micrograph 784](https://www.doitpoms.ac.uk/miclib/full_record.php?id=784) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 785](https://www.doitpoms.ac.uk/miclib/full_record.php?id=785) | [Micrograph 785](https://www.doitpoms.ac.uk/miclib/full_record.php?id=785) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 786](https://www.doitpoms.ac.uk/miclib/full_record.php?id=786) | [Micrograph 786](https://www.doitpoms.ac.uk/miclib/full_record.php?id=786) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 787](https://www.doitpoms.ac.uk/miclib/full_record.php?id=787) | [Micrograph 787](https://www.doitpoms.ac.uk/miclib/full_record.php?id=787) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 788](https://www.doitpoms.ac.uk/miclib/full_record.php?id=788) | [Micrograph 788](https://www.doitpoms.ac.uk/miclib/full_record.php?id=788) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 789](https://www.doitpoms.ac.uk/miclib/full_record.php?id=789) | [Micrograph 789](https://www.doitpoms.ac.uk/miclib/full_record.php?id=789) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 40 μm | |
| [Link to full record for micrograph 790](https://www.doitpoms.ac.uk/miclib/full_record.php?id=790) | [Micrograph 790](https://www.doitpoms.ac.uk/miclib/full_record.php?id=790) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 791](https://www.doitpoms.ac.uk/miclib/full_record.php?id=791) | [Micrograph 791](https://www.doitpoms.ac.uk/miclib/full_record.php?id=791) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 792](https://www.doitpoms.ac.uk/miclib/full_record.php?id=792) | [Micrograph 792](https://www.doitpoms.ac.uk/miclib/full_record.php?id=792) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 793](https://www.doitpoms.ac.uk/miclib/full_record.php?id=793) | [Micrograph 793](https://www.doitpoms.ac.uk/miclib/full_record.php?id=793) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 794](https://www.doitpoms.ac.uk/miclib/full_record.php?id=794) | [Micrograph 794](https://www.doitpoms.ac.uk/miclib/full_record.php?id=794) : Austempered ductile cast iron System: Fe-C-X, Composition: Fe, C 3.52, Si 2.51, Mn 0.49, Mo 0.15, Cu 0.31 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 795](https://www.doitpoms.ac.uk/miclib/full_record.php?id=795) | [Micrograph 795](https://www.doitpoms.ac.uk/miclib/full_record.php?id=795) : Blackheart cast iron System: Fe-C-X, Composition: Blackheart cast iron  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 796](https://www.doitpoms.ac.uk/miclib/full_record.php?id=796) | [Micrograph 796](https://www.doitpoms.ac.uk/miclib/full_record.php?id=796) : Blackheart cast iron System: Fe-C-X, Composition: Blackheart cast iron  Reflected light microscopy 100 μm | |
| [Link to full record for micrograph 797](https://www.doitpoms.ac.uk/miclib/full_record.php?id=797) | [Micrograph 797](https://www.doitpoms.ac.uk/miclib/full_record.php?id=797) : Wear-resistant high-chromium cast iron System: Fe-C-X, Composition: Fe, C 2.6, Cr 17, Mo 2, Ni 2 (wt%)  Reflected light microscopy 40 μm | |
| [Link to full record for micrograph 798](https://www.doitpoms.ac.uk/miclib/full_record.php?id=798) | [Micrograph 798](https://www.doitpoms.ac.uk/miclib/full_record.php?id=798) : Wear-resistant high-chromium cast iron System: Fe-C-X, Composition: Fe, C 2.6, Cr 17, Mo 2, Ni 2 (wt%)  Reflected light microscopy 20 μm | |
| [Link to full record for micrograph 799](https://www.doitpoms.ac.uk/miclib/full_record.php?id=799) | [Micrograph 799](https://www.doitpoms.ac.uk/miclib/full_record.php?id=799) : Austenitic stainless steel solution treated, water quenched and tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Scanning electron microscopy (SEM) 2 μm | |
| [Link to full record for micrograph 800](https://www.doitpoms.ac.uk/miclib/full_record.php?id=800) | [Micrograph 800](https://www.doitpoms.ac.uk/miclib/full_record.php?id=800) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Nb 1 (wt%)  Scanning electron microscopy (SEM) 1 μm | |
| [Link to full record for micrograph 801](https://www.doitpoms.ac.uk/miclib/full_record.php?id=801) | [Micrograph 801](https://www.doitpoms.ac.uk/miclib/full_record.php?id=801) : Austenitic stainless steel solution treated, water quenched then tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Transmission electron microscopy (TEM) 400 nm | |
| [Link to full record for micrograph 802](https://www.doitpoms.ac.uk/miclib/full_record.php?id=802) | [Micrograph 802](https://www.doitpoms.ac.uk/miclib/full_record.php?id=802) : Austenitic stainless steel solution treated, water quenched then tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 803](https://www.doitpoms.ac.uk/miclib/full_record.php?id=803) | [Micrograph 803](https://www.doitpoms.ac.uk/miclib/full_record.php?id=803) : Austenitic stainless steel solution treated, water quenched then tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 804](https://www.doitpoms.ac.uk/miclib/full_record.php?id=804) | [Micrograph 804](https://www.doitpoms.ac.uk/miclib/full_record.php?id=804) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 15, Ni 35, Mo 2.5, C 0.25 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 805](https://www.doitpoms.ac.uk/miclib/full_record.php?id=805) | [Micrograph 805](https://www.doitpoms.ac.uk/miclib/full_record.php?id=805) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 15, Ni 35, V 5, C 0.1 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 806](https://www.doitpoms.ac.uk/miclib/full_record.php?id=806) | [Micrograph 806](https://www.doitpoms.ac.uk/miclib/full_record.php?id=806) : Austenitic stainless steel water quenched then cooled, showing transformation to g in the a lamellae System: Fe-C-X, Composition: Fe, C 0.12, Mn 14.2, Cr 13.7  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 807](https://www.doitpoms.ac.uk/miclib/full_record.php?id=807) | [Micrograph 807](https://www.doitpoms.ac.uk/miclib/full_record.php?id=807) : Martensitic steel solution treated and rapidly cooled with dislocation in retained autenite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 500 nm | |
| [Link to full record for micrograph 808](https://www.doitpoms.ac.uk/miclib/full_record.php?id=808) | [Micrograph 808](https://www.doitpoms.ac.uk/miclib/full_record.php?id=808) : Martensitic steel tempered with precipitation of Mo2C System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 200 nm | |
| [Link to full record for micrograph 809](https://www.doitpoms.ac.uk/miclib/full_record.php?id=809) | [Micrograph 809](https://www.doitpoms.ac.uk/miclib/full_record.php?id=809) : Austenitic stainless steel solution treated, quenched, deformed in tension, then tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 810](https://www.doitpoms.ac.uk/miclib/full_record.php?id=810) | [Micrograph 810](https://www.doitpoms.ac.uk/miclib/full_record.php?id=810) : Ferritic steel heat treated and water quenched System: Fe-C-X, Composition: Fe, Mn 1, S 0.02 (wt%)  Scanning electron microscopy (SEM) 1.5 μm | |
| [Link to full record for micrograph 811](https://www.doitpoms.ac.uk/miclib/full_record.php?id=811) | [Micrograph 811](https://www.doitpoms.ac.uk/miclib/full_record.php?id=811) : Austenitic stainless steel rapidly cooled, fracture surface of laboratory ingot System: Fe-C-X, Composition: Fe, C 0.13, Ni 4, Cr 2, Mn 0.49, S 0.015 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 812](https://www.doitpoms.ac.uk/miclib/full_record.php?id=812) | [Micrograph 812](https://www.doitpoms.ac.uk/miclib/full_record.php?id=812) : Austenitic stainless steel rapidly cooled, fracture surface of laboratory ingot System: Fe-C-X, Composition: Fe, C 0.13, Ni 4, Cr 2, Mn 0.49, S 0.015 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 813](https://www.doitpoms.ac.uk/miclib/full_record.php?id=813) | [Micrograph 813](https://www.doitpoms.ac.uk/miclib/full_record.php?id=813) : Austenitic stainless steel solution treated, quenched and tempered, with M23C6precipitate System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Mo 1 (wt%)  Transmission electron microscopy (TEM) 400 nm | |
| [Link to full record for micrograph 814](https://www.doitpoms.ac.uk/miclib/full_record.php?id=814) | [Micrograph 814](https://www.doitpoms.ac.uk/miclib/full_record.php?id=814) : Austenitic stainless steel solution treated, quenched and tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 815](https://www.doitpoms.ac.uk/miclib/full_record.php?id=815) | [Micrograph 815](https://www.doitpoms.ac.uk/miclib/full_record.php?id=815) : Martensitic steel, lightly rolled, with dislocations in austenite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Scanning electron microscopy (SEM) 400 nm | |
| [Link to full record for micrograph 816](https://www.doitpoms.ac.uk/miclib/full_record.php?id=816) | [Micrograph 816](https://www.doitpoms.ac.uk/miclib/full_record.php?id=816) : Austenitic stainless steel solution treated, quenched and tempered, showing M23C6precipitate System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Mo 1 (wt%)  Transmission electron microscopy (TEM) 400 nm | |
| [Link to full record for micrograph 817](https://www.doitpoms.ac.uk/miclib/full_record.php?id=817) | [Micrograph 817](https://www.doitpoms.ac.uk/miclib/full_record.php?id=817) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 15, Ni 35, Ti 5, C 0.1  Scanning electron microscopy (SEM) 2 μm | |
| [Link to full record for micrograph 818](https://www.doitpoms.ac.uk/miclib/full_record.php?id=818) | [Micrograph 818](https://www.doitpoms.ac.uk/miclib/full_record.php?id=818) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 15, Ni 35, Nb 2.5, C 0.1 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 819](https://www.doitpoms.ac.uk/miclib/full_record.php?id=819) | [Micrograph 819](https://www.doitpoms.ac.uk/miclib/full_record.php?id=819) : Austenitic stainless steel water quenched then deformed in impact System: Fe-C-X, Composition: Stainless steel with Cr 13.7, Mn 14.2, C 0.12 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 820](https://www.doitpoms.ac.uk/miclib/full_record.php?id=820) | [Micrograph 820](https://www.doitpoms.ac.uk/miclib/full_record.php?id=820) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 15, Ni 35, Nb 5, C O.1 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 821](https://www.doitpoms.ac.uk/miclib/full_record.php?id=821) | [Micrograph 821](https://www.doitpoms.ac.uk/miclib/full_record.php?id=821) : Austenitic stainless steel impact deformed at room temperature System: Fe-C-X, Composition: Fe, C 1.15, Mn 13 (wt%)  Scanning electron microscopy (SEM) 2.5 μm | |
| [Link to full record for micrograph 822](https://www.doitpoms.ac.uk/miclib/full_record.php?id=822) | [Micrograph 822](https://www.doitpoms.ac.uk/miclib/full_record.php?id=822) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Transmission electron microscopy (TEM) 400 nm | |
| [Link to full record for micrograph 823](https://www.doitpoms.ac.uk/miclib/full_record.php?id=823) | [Micrograph 823](https://www.doitpoms.ac.uk/miclib/full_record.php?id=823) : Martensitic steel tempered, with dislocation helices in ferrite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 824](https://www.doitpoms.ac.uk/miclib/full_record.php?id=824) | [Micrograph 824](https://www.doitpoms.ac.uk/miclib/full_record.php?id=824) : Martensitic steel tempered, with precipitation of Mo2C in ferrite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 826](https://www.doitpoms.ac.uk/miclib/full_record.php?id=826) | [Micrograph 826](https://www.doitpoms.ac.uk/miclib/full_record.php?id=826) : Austenitic stainless steel tempered, with Mo2 and M6C precipitates System: Fe-C-X, Composition: Fe, C 0.20, Mo 3.8, Ta 0.22 (wt%)  Scanning electron microscopy (SEM) 2.5 μm | |
| [Link to full record for micrograph 827](https://www.doitpoms.ac.uk/miclib/full_record.php?id=827) | [Micrograph 827](https://www.doitpoms.ac.uk/miclib/full_record.php?id=827) : Martensitic steel quenched then tempered System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 828](https://www.doitpoms.ac.uk/miclib/full_record.php?id=828) | [Micrograph 828](https://www.doitpoms.ac.uk/miclib/full_record.php?id=828) : Martensitic steel tempered, with precipitation of Mo2C on dislocations in ferrite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 500 nm | |
| [Link to full record for micrograph 829](https://www.doitpoms.ac.uk/miclib/full_record.php?id=829) | [Micrograph 829](https://www.doitpoms.ac.uk/miclib/full_record.php?id=829) : Martensitic steel quenched then tempered, with precipitation of Mo2C on dislocations in ferrite System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 500 nm | |
| [Link to full record for micrograph 830](https://www.doitpoms.ac.uk/miclib/full_record.php?id=830) | [Micrograph 830](https://www.doitpoms.ac.uk/miclib/full_record.php?id=830) : Martensitic steel tempered, with precipitation of Mo2C on dislocations System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 2 μm | |
| [Link to full record for micrograph 831](https://www.doitpoms.ac.uk/miclib/full_record.php?id=831) | [Micrograph 831](https://www.doitpoms.ac.uk/miclib/full_record.php?id=831) : Austenitic stainless steel water quenched, with a-martensite needles within lamellae System: Fe-C-X, Composition: Fe, C 0.12, Mn 14.2, Cr 13.7  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 832](https://www.doitpoms.ac.uk/miclib/full_record.php?id=832) | [Micrograph 832](https://www.doitpoms.ac.uk/miclib/full_record.php?id=832) : Austenitic stainless steel tempered System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 200 nm | |
| [Link to full record for micrograph 833](https://www.doitpoms.ac.uk/miclib/full_record.php?id=833) | [Micrograph 833](https://www.doitpoms.ac.uk/miclib/full_record.php?id=833) : Austenitic stainless steel solution treated, quenched then tempered System: Fe-C-X, Composition: Stainless steel with Cr 18, Ni 10, Nb 1 (wt%)  Reflected light microscopy 50 μm | |
| [Link to full record for micrograph 834](https://www.doitpoms.ac.uk/miclib/full_record.php?id=834) | [Micrograph 834](https://www.doitpoms.ac.uk/miclib/full_record.php?id=834) : Steel slowly cooled, fracture surface of commercial ingot System: Fe-C-X, Composition: Fe, C 0.13, Ni 4, Cr 2, Mn 0.49, S 0.015 (wt%)  Scanning electron microscopy (SEM) 4 μm | |
| [Link to full record for micrograph 835](https://www.doitpoms.ac.uk/miclib/full_record.php?id=835) | [Micrograph 835](https://www.doitpoms.ac.uk/miclib/full_record.php?id=835) : Martensitic steel tempered, with precipitation of Mo2C System: Fe-C-X, Composition: Fe, C 0.2, Mo 4 (wt%)  Transmission electron microscopy (TEM) 1 μm | |
| [Link to full record for micrograph 841](https://www.doitpoms.ac.uk/miclib/full_record.php?id=841) | [Micrograph 841](https://www.doitpoms.ac.uk/miclib/full_record.php?id=841) : Micrograph of base material microstructure: H32 - cold-worked and stabilised to obtain 1/4 hardness. System: Al-Mg, Composition: Al, Mg 4.5, Mn 0.7 (wt%)  Optical microscope, interferential contrast 100 μm | |
| [Link to full record for micrograph 842](https://www.doitpoms.ac.uk/miclib/full_record.php?id=842) | [Micrograph 842](https://www.doitpoms.ac.uk/miclib/full_record.php?id=842) : Macrograph of a resistance spot weld made in two plates of 1,5mm thickness. T3 - solution heat treatment, cold working and natural ageing. System: Al-Cu, Composition: Al, Cu 4.5, Mg 1.5 (wt%)  Optical microscope, interferential contrast 1 mm | |
| [Link to full record for micrograph 843](https://www.doitpoms.ac.uk/miclib/full_record.php?id=843) | [Micrograph 843](https://www.doitpoms.ac.uk/miclib/full_record.php?id=843) : Micrograph of base metal. T6 - solution heat treated and artificially aged. System: Al-Mg-Si, Composition: Al, Mg 1, Si 0.8, Mn 0.5 (wt%)  Optical microscope, reflected light 250 μm | |
| [Link to full record for micrograph 844](https://www.doitpoms.ac.uk/miclib/full_record.php?id=844) | [Micrograph 844](https://www.doitpoms.ac.uk/miclib/full_record.php?id=844) : Microstructure of extruded tube in Magnesium alloy AZ91 in direction perpendicular to the direction of extrusion. System: Mg-Al, Composition: Mg, Al 9.2, Zn 0.8 (wt %)  Optical microscope, reflected light 500 μm | |
| [Link to full record for micrograph 845](https://www.doitpoms.ac.uk/miclib/full_record.php?id=845) | [Micrograph 845](https://www.doitpoms.ac.uk/miclib/full_record.php?id=845) : Microstructure of extruded tube in Magnesium alloy AZ91 in direction perpendicular to the direction of extrusion. System: Mg-Al, Composition: Mg, Al 9.2, Zn 0.8 (wt %)  Optical microscope, reflected light 50 μm | |
| [Link to full record for micrograph 846](https://www.doitpoms.ac.uk/miclib/full_record.php?id=846) | [Micrograph 846](https://www.doitpoms.ac.uk/miclib/full_record.php?id=846) : Fe-0.4C-30Ni (wt%) System: Fe-C-X, Composition: Fe, C 0.4 Ni 30 (wt%)  Optical Microscopy, Nomarski differential interference contrast 50 μm | |
| [Link to full record for micrograph 850](https://www.doitpoms.ac.uk/miclib/full_record.php?id=850) | [Micrograph 850](https://www.doitpoms.ac.uk/miclib/full_record.php?id=850) : Stainless Steel 430. System: Fe-C-X, Composition: Stainless steel 430  Atomic force microscopy (AFM) 20 μm | |