

Atomised Iron Powder

Sinter / Powder Metallurgy

| Grade | Chemical Composition in (%) | | | | | | | Particle Size - in Microns (%) | | | | | Apparent Density (Gms/CC) | Flow Rate (s/50gm) | Green Density @ 600 Mpa (Gm/CC) | Green Strength (N/mm ²) |
|-------------|-----------------------------|------|------|------|-------|-------|-------|--------------------------------|------|---------|------------|---------|---------------------------|--------------------|---------------------------------|-------------------------------------|
| | FeT | C | Si | Mn | S | P | O-tot | +250 | +180 | +150 | - 150 + 45 | -45 | | | | |
| GAPM 100.29 | Base | 0.02 | 0.05 | 0.15 | 0.02 | 0.015 | 0.2 | -- | >2 | 5 - 10 | Bal. | 15 - 25 | 3 | 27 | 7 - 7.3 | 25 |
| GAPM 100.30 | | 0.02 | 0.05 | 0.15 | 0.02 | 0.015 | 0.1 | -- | 2 | 10 - 15 | Bal. | 25 | 3.05 | 25 | 7 | 24 |
| GAPM 100.27 | | 0.02 | 0.05 | 0.2 | 0.015 | 0.015 | 0.1 | -- | >3 | 5- 10 | Bal. | 15 - 20 | 2.8 | 25 | 6.8 | 24 |
| GAPM 80.29 | | 0.03 | 0.05 | 0.2 | 0.02 | 0.02 | 0.2 | >5 | 8 | 10 - 15 | Bal. | 15 | 2.95 | 24 | 6.7 | 22 |

Gas & water Jet Cutting

| Grade | Chemical Composition in (%) | | | | | | Particle Size - in Microns (%) | | | Apparent Density (Gms/CC) | Flow rate (s/50 gm) |
|-------------|-----------------------------|------|------|------|-------|---------|--------------------------------|-----------|---------|---------------------------|---------------------|
| | FeT | C | Si | Mn | S | O - tot | >5 % | 80 - 85 % | 10-15 % | | |
| GAGC 100.29 | Base | 0.02 | 0.05 | 0.15 | 0.015 | 0.1 | +180 | -150 | -45 | 2.9-3.1 | 28-32 |
| GAGC 40.29 | | 0.03 | 0.05 | 0.15 | 0.015 | 0.15 | +840 | -400 | +180 | 2.9-3.1 | 28-32 |
| GAGC 20.29 | | 0.03 | 0.05 | 0.15 | 0.015 | 0.15 | +1000 | -840 | +400 | 2.9-3.1 | 28-32 |

Welding Grade & Core Wire Grade

| Grade | Chemical Composition in (%) | | | | | | Particle Size - in Microns (%) | | | Apparent Density (Gms/CC) | Flow rate (s/50 gm) |
|------------|-----------------------------|------|-----|-----|------|---------|--------------------------------|-----------|---------|---------------------------|---------------------|
| | FeT | C | Si | Mn | S | O - tot | >5 % | 80 - 85 % | 10-15 % | | |
| GAW 60.29 | Base | 0.03 | 0.1 | 0.2 | 0.02 | 0.2 | 250 | -250 | +150 | 2.9-3.1 | 28-32 |
| GAW 40.29 | | 0.03 | 0.1 | 0.2 | 0.02 | 0.15 | 400 | -400 | +180 | 2.9-3.1 | 28-32 |
| GAW 100 | | 0.03 | 0.1 | 0.2 | 0.02 | 0.15 | 180 | -180 | +75 | 2.9-3.1 | 28-32 |
| GACW 40.29 | | 0.03 | 0.1 | 0.2 | 0.02 | 0.2 | 400 | -400 | +250 | 2.9-3.1 | 28-32 |
| GACW 20.29 | | 0.03 | 0.1 | 0.2 | 0.02 | 0.2 | 840 | -840 | +600 | 2.9-3.1 | 28-32 |

Diamond Tools

| Grade | Chemical Composition in (%) | | | | | | Particle size in Microns (%) | | Apparent Density (Gms/CC) | Flow rate (s/50 gm) |
|---------|-----------------------------|------|------|-----|------|---------|------------------------------|---------|---------------------------|---------------------|
| | FeT | C | Si | Mn | S | O - tot | >5 % | 90-95 % | | |
| GAD 20 | Base | 0.01 | 0.05 | 0.1 | 0.02 | 0.1 | +840 | -840 | 3.4 | 28 - 32 |
| GAD 40 | | 0.01 | 0.05 | 0.1 | 0.02 | 0.1 | +400 | -400 | 3.2 | 28 - 32 |
| GAD 325 | | 0.01 | 0.05 | 0.1 | 0.02 | 0.1 | -45 | +45 | 2.9 | 27 - 30 |

Oxygen Absorber

| Grade | Chemical Composition in (%) | | | | | | Particle Size in Microns (%) | | Apparent Density (Gms/CC) | Flow rate (s/50 gm) |
|----------|-----------------------------|------|------|------|-------|---------|------------------------------|----------|---------------------------|---------------------|
| | FeT | C | Si | Mn | S | O - tot | >5 % | 95-100 % | | |
| GAOA 20 | Base | 0.03 | 0.05 | 0.15 | 0.015 | 0.1 | 840 | -840 | 2.9-3.1 | 28-32 |
| GAOA 40 | | 0.03 | 0.05 | 0.15 | 0.015 | 0.1 | +400 | -400 | 2.9-3.1 | 28-32 |
| GAOA 60 | | 0.03 | 0.05 | 0.15 | 0.015 | 0.15 | +250 | -250 | 2.9-3.1 | 28-32 |
| GAOA 80 | | 0.03 | 0.05 | 0.15 | 0.015 | 0.1 | +180 | -180 | 2.9-3.1 | 28-32 |
| GAOA 100 | | 0.02 | 0.05 | 0.15 | 0.02 | 0.1 | +150 | -150 | 2.9-3.1 | 28-32 |