|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S1. Datasets** | | | | | | | |
| Number | Depth of burial/m | *σθ*/MPa | *σc*/MPa | *σt*/MPa | *Wet* | Strength class | Collection sources |
| 1 | 400 | 30 | 88.7 | 3.7 | 6.6 | Moderate | Wang et al.37 |
| 2 | 194 | 90 | 220 | 7.4 | 7.3 | Light |
| 3 | 200 | 90 | 70 | 11.3 | 9 | Moderate |
| 4 | 400 | 62.6 | 165 | 9.4 | 9 | Light |
| 5 | 150 | 98.6 | 120 | 6.5 | 3.8 | Light |
| 6 | 300 | 55.4 | 176 | 7.3 | 9.3 | Light |
| 7 | 275 | 48 | 120 | 1.5 | 5.8 | Moderate | LIU et al.38 |
| 8 | 275 | 49.5 | 110 | 1.5 | 5.7 | Moderate |
| 9 | 275 | 63 | 115 | 1.5 | 5.7 | Moderate |
| 10 | 250 | 80 | 180 | 6.7 | 5.5 | Light | Afraei  et al.39 |
| 11 | 204 | 35 | 133.4 | 9.3 | 2.9 | Light |
| 12 | 203 | 157.3 | 91.23 | 6.92 | 6.27 | Strong |
| 13 | 225 | 30.1 | 88.7 | 3.7 | 6.6 | Strong |
| 14 | 375 | 18.8 | 171.5 | 6.3 | 7 | None |
| 15 | 250 | 38.2 | 53 | 3.9 | 1.6 | None |
| 16 | 100 | 11.3 | 90 | 4.8 | 3.6 | None |
| 17 | 300 | 92 | 263 | 10.7 | 8 | Light |
| 18 | 330 | 62.4 | 235 | 9.5 | 9 | Strong |
| 19 | 223 | 43.4 | 136.5 | 7.2 | 5.6 | Strong |
| 20 | <504 | 13.9 | 124 | 4.22 | 2.04 | None |
| 21 | <504 | 17.4 | 161 | 3.98 | 2.19 | Light |
| 22 | <504 | 19 | 153 | 4.48 | 2.11 | Light |
| 23 | <504 | 19.7 | 142 | 4.55 | 2.26 | Light |
| 24 | 362 | 25.7 | 59.7 | 1.3 | 1.7 | None |
| 25 | 374 | 26.9 | 62.8 | 2.1 | 2.4 | Light |
| 26 | 240 | 47.8 | 141 | 7.22 | 4.3 | Light | Liu et al.40 |
| 27 | 300 | 48.9 | 141 | 6.59 | 4.3 | Light |
| 28 | 289 | 23.39 | 106.32 | 2.92 | 1.75 | None |
| 29 | 119 | 43.1 | 122 | 5.38 | 3.31 | Light | Wang et al.41 |
| 30 | 283 | 87.5 | 121 | 5.73 | 9.05 | Strong |
| 31 | 316 | 79.1 | 124 | 8.64 | 7.74 | Strong |
| 32 | 467 | 56.2 | 119 | 7.21 | 5.52 | Moderate |
| 33 | 100 | 32.2 | 146 | 6.52 | 4 | Light | Zhou et al.42 |
| 34 | 460 | 32.3 | 147 | 6.56 | 4 | Light |
| 35 | 125 | 73.5 | 175 | 8.1 | 4.8 | Moderate | SUN et al.43 |
| 36 | 430 | 56.3 | 176 | 7.4 | 8.9 | Moderate |
| 37 | 398 | 29.7 | 90 | 3.6 | 6.5 | Moderate |
| 38 | 490 | 21.6 | 180 | 5.8 | 7.6 | Moderate |
| 39 | 300 | 81 | 180 | 6.6 | 5.1 | Light |
| 40 | 220 | 43.4 | 123 | 6 | 5 | Moderate |
| 41 | 225 | 30.1 | 88.7 | 3.7 | 6.06 | Strong | Feng et al.44 |
| 42 | 194 | 90 | 220 | 7.4 | 7.3 | Strong |
| 43 | 375 | 18.8 | 171.5 | 6.3 | 7 | None |
| 44 | 435 | 34 | 149 | 5.9 | 7.6 | Light |
| 45 | 250 | 38.2 | 53 | 3.9 | 1.6 | None |
| 46 | 100 | 11.3 | 90 | 4.8 | 3.6 | None |
| 47 | 300 | 92 | 263 | 10.7 | 8 | Light |
| 48 | 330 | 62.4 | 235 | 9.5 | 9 | Strong |
| 49 | 223 | 43.4 | 136.5 | 7.2 | 5.6 | Strong |
| 50 | 425 | 11 | 105 | 4.9 | 4.7 | None |
| 51 | 428 | 18.7 | 81.2 | 10.6 | 1.5 | None | XU et al.45 |
| 52 | 460 | 28.6 | 123.6 | 11.5 | 2.5 | None |
| 53 | 460 | 29.8 | 132.2 | 7.8 | 4.6 | None |
| 54 | 463 | 12 | 85 | 3.6 | 1.5 | None | XIAO et al.46 |
| 55 | 370 | 17.39 | 102.3 | 1.3 | 6.58 | Moderate | Jiang et al.47 |
| 56 | 370 | 17.02 | 85.09 | 1.3 | 6.14 | Moderate |
| 57 | 373 | 16.7 | 83.6 | 1.3 | 6.53 | Moderate |
| 58 | 373 | 17.35 | 86.77 | 1.3 | 3.22 | Moderate |
| 59 | 375 | 16.87 | 80.83 | 1.3 | 6.92 | Moderate |
| 60 | 375 | 17.08 | 94.9 | 1.3 | 6.91 | Moderate |
| 61 | 174 | 15.97 | 114.07 | 11.96 | 2.4 | None | Zhang  et al.48 |
| 62 | 275 | 19.14 | 106.31 | 11.96 | 2.07 | None |
| 63 | 187 | 12.96 | 117.81 | 11.96 | 2.49 | None |
| 64 | 267 | 31.05 | 147.85 | 11.96 | 3 | Moderate |
| 65 | 215 | 29.09 | 138.5 | 11.96 | 2.77 | None |
| 66 | 272 | 32.4 | 140.88 | 11.96 | 2.86 | Light |
| 67 | 380 | 12 | 95 | 5.58 | 5.1 | None | YU et al.49 |
| 68 | 400 | 18.2 | 60 | 1.9 | 2.84 | Light | Zhou et al.50 |
| 69 | 290 | 53 | 147.2 | 7.18 | 5 | Moderate |