# Carbon-graphite

| Parameter | Unit | J1118F | J2163K | J2163D | J3120P | J3120B |
|---|---|---|---|---|---|---|
| Impregnation | - | Phenolic Resin | Furan Resin | Antimony | Copper Alloy | Babbitt |
| Hardness | - | HS 85 | HS 90 | HS 95 | HS 80 | HS 65 |
| Compressive Strength | MPa | 210 | 220 | 260 | 240 | 150 |
| Flexural Strength | MPa | 65 | 75 | 95 | 75 | 60 |
| Porosity | % | 1.0 - 2.0 | 1.0 - 2.0 | 2.5 | 2 | 3 |
| Coefficient of Thermal Expansion | $1 \times 10^{-6}$ / K | 5 | 5.5 | 6 | 6.2 | 5 |
| Maximum Working Temperature | °C | 200 | 200 | 400 | 400 | 200 |

The Carbon-graphite has the advantages of excellent corrosion resistance, self-lubricity, high coefficient of heat conductivity, small expansion coefficient and low frictional secondary materials used in various mechanical sealed-in units.

| Category | | Model | Density (g/cm3) | Bending strength MPa | Compression strength MPa | Shaw Hardness HS | Porosity % |
|---|---|---|---|---|---|---|---|
| **Carbon-graphite** | Impegnated Epoxy Resin (H) | M106H | 1.75 | 65 | 200 | 85 | 2.5 |
| | | M120H | 1.70 | 60 | 180 | 80 | 2.5 |
| | | M205H | 1.70 | 60 | 200 | 70 | 2.5 |
| | | M252H | 1.72 | 45 | 120 | 45 | 2.5 |
| | Impregnated Furan Resin (K) | M106K | 1.75 | 67 | 200 | 90 | 2.0 |
| | | M120K | 1.70 | 62 | 180 | 85 | 2.0 |
| | | M205K | 1.70 | 62 | 180 | 85 | 2.0 |
| | | M252K | 1.72 | 47 | 120 | 48 | 2.0 |
| | | KC-170 | 1.82 | 68 | 200 | 80 | 2.0 |
| | Impregnated Phenol Aldehyde Resin (F) | M106F | 1.75 | 60 | 200 | 85 | 2 |
| | | M120F | 1.70 | 55 | 180 | 80 | 2 |
| | | M205F | 1.70 | 55 | 200 | 70 | 2 |
| | | M252F | 1.72 | 40 | 120 | 45 | 2 |
| | | KC-573 | 1.85 | 85 | 370 | 110 | 2 |
| | | KC-673 | 1.87 | 78 | 245 | 87 | 2 |

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