

PROPERTIES OF GRAPHITE GRADE JP932

GENERAL

Isomolded, very fine grain, high strength, high density, isotropic graphite for high mechanical applications. Treated for oxidation resistance. Maximum operating temperature 1,020 °F (550 °C)

TYPICAL APPLICATIONS

Rings for compressors, turbines.

PROPERTIES

	Typical Values	
	English Units	IS Units
Bulk Density	114 lbs/ft ³	1,83 g/cm ³
Porosity	8%	8%
Hardness		
- Rockwell H	85	85
- Shore	68	68
Flexural Strength	8,000 psi	55 MPa
Compressive Strength	17,300 psi	119 MPa
Tensile Strength	5,000 psi	34 MPa
Modulus of elasticity (Young's Modulus)	1.7 x 10 ⁶ psi	11,5 GPa
Coefficient of Thermal Expansion (CTE)	3.1 x 10 ⁻⁶ /°F (752 to 935°F)	5,6 x 10 ⁻⁶ /°C (400 to 500°C)
Electrical Resistivity	0.00048 ohm-in	1 220 µohm.cm
Thermal Conductivity	61 Btu-Ft/Ft ² Hr°F	106 W/m°C
Average Grain Size	0.0004 inch	9 µm
Ash	2,000 ppm	2 000 ppm
Max Standard Block Size	8x12x12"	203x305x305 mm

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