



PROPERTIES OF GRAPHITE GRADE JP 933

GENERAL

Isomolded, very fine grain, high strength, high density, isotropic graphite for high mechanical applications, treated for high oxidation resistance. Maximum operating temperature 1110°F (600°C).

PROPERTIES

	Typical Values	
	English Units	SI Units
Bulk Density	115.5 lbs/ft ³	1,85 g/cm ³
Specific Resistance	0.00047 ohm-in	1200 µohm.cm
Flexural Strength	7,250 psi	50 MPa
Compressive Strength	18,850 psi	130 MPa
Tensile Strength	4,640 psi	32 MPa
Modulus of Elasticity	1.99 x 10E 6 psi	14 Gpa
Shore Hardness	65	65
Coefficient of Thermal Expansion	2.9 x 10E-6/°F	5,2 x 10E-6/°C
Porosity	11%	11%
Average grain size	0.0004 inch	10 µm
Permeability	0.20 cm ² .sec-1	0,20 cm ² .sec-1
Thermal Conductivity	49 Btu-Ft ² /Ft ² Hr°F	85 W/m°C
Anti-oxidation content	2%	2%
Maximum block size	8 x 12 x 12 in	204 x 308 x 308 mm

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In North America contact:

Mersen USA St Marys-PA Corp.

215 Stackpole Street
Saint Marys, PA 15857 USA
Tel: + 1 814 781 - 1234
Fax: + 1 814 781 - 8570

In Europe contact:

Mersen France Gennevilliers S.A.S

BP 148 - 41, rue Jean - Jaurès
F - 92231 Gennevilliers - France
Tel: + 1 33 1 41 85 43 00
Fax: + 1 33 1 41 85 43 15