



PROPERTIES OF GRAPHITE GRADE ELLOR+30

GENERAL

Isomolded, micro-grain, high strength, isotropic graphite. Maximum inert atmosphere service temperature 5,000 F (2760 °C)
Standard size:
308 x 620 x 915 mm

PROPERTIES

	Typical Values	
	English Units	SI Units
Bulk Density	115 lbs/ft ³	1,84 g/cm ³
Grain Size	0.0003 inch	8 µm
Specific Resistance	0.00048 ohm-in	1220 µohm.cm
Flexural Strength	9,400 psi	65 MPa
Tensile Strength	5,700 psi	39 MPa
Compressive Strength	19,500 psi	134 MPa
Hardness Shore	< 80	< 80
Hardness Rockwell H	< 95	< 95
Coefficient of Thermal Expansion (400 to 500°C)	3.3 x 10E-6/°F	6,0 x 10E-6/°C
Porosity	7 %	7 %
Thermal Conductivity	60 Btu-Ft/Ft ² Hr°F	105 W/m°C
Ash	400 ppm	400 ppm

TYPICAL APPLICATIONS

Micro-grain EDM graphite which allows exceptional surface finishes associated with low electrode wear rates and excellent metal removal rates.
Surface finish 1.12 to 2.24 Raµm.

13-May-2010 Rev 03

The specification or data herein contained are only given for indication, without any undertakings whatsoever. Their publication does not suggest the matter is free of any rights whatsoever. Furthermore, due to constant evolution of techniques and norms, we reserve the right to modify, at any time, the characteristics and specifications contained in this document. MERSEN refuses all and any responsibility concerning their use whatever the purpose or application. Any copy, reproduction or information herein contained, in whole or in part, made without MERSEN written consent, is forbidden according to the laws of France and particularly the law nr. 92-597 of July 1st 1992 relating to the copyright.

In North America contact:
Mersen USA St Marys-PA Corp.
215 Stackpole Street
Saint Marys, PA 15857 USA
Tel: (814) 781 - 1234
Fax: (814) 781 - 8570

In Europe contact:
Mersen France Gennevilliers S.A.S
BP 148 - 41, rue Jean - Jaurès
F - 92231 Gennevilliers - France
Tel: (33) 1 41 85 43 00
Fax: (33) 1 41 85 43 15