

MICRON E-888 Fine Grain Graphite

Technical Data Sheet 6012

Product Overview

MICRON E-888 fine grain graphite is suitable for a broad range of electric discharge machining applications that require fine machined detail and superior wear resistance in a variety of service conditions.

Applications

- Forging dies
- Detailed roughing electrodes
- Die cast dies
- Extrusion dies

Sizes

- 165 x 330 x 660 mm (6.5" x 13" x 26") billets

Typical Properties at Room Temperature*

Characteristic	Unit	Value	Unit	Value
Particle Size	inches	0.00055	µm	14
Bulk Density	lbs/ft ³	105	g/cm ³	1.68
Specific Resistance	10 ⁻⁴ Ωin	7.1	µΩm	17.9
Thermal Conductivity	Btu/ft-hr-°F	41.6	W/m ² K	72
CTE (to 100°C)	10 ⁻⁶ /°F	2.47	10 ⁻⁶ /°C	4.45
Flexural Strength (4-Point)	psi	5,500	MPa	38
Compressive Strength	psi	14,800	MPa	102
Tensile Strength	psi	4,600	MPa	32
Sonic Modulus	10 ⁶ psi	1.35	GPa	9.3
Hardness	Shore	63	Rockwell "L"	97
Purity (Ash)**	ppm	1600	ppm	1600
Gas Permeability	Darcy	0.007	Darcy	0.007

Notes:

* Properties listed are typical and cannot be used as accept/reject specifications

** For applications requiring low ash, a purified version of this grade is available

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Redefining limits