

MICRON E-950C Fine Grain Graphite

Technical Data Sheet 6010

Product Overview

MICRON E-950C copper impregnated ultra 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

- Thin ribs
- Very fine detail
- Deep cavities
- Carbide machining
- Alternative to copper tungsten

Sizes

- 76 x 152 x 305 mm (3" x 6" x 12") billets

Typical Properties at Room Temperature*

Characteristic	Unit	Value	Unit	Value
Particle Size	inches	0.00028	µm	7
Bulk Density	lbs/ft ³	157	g/cm ³	2.51
Specific Resistance	10 ⁻⁴ Ωin	1.97	µΩm	5.0
Thermal Conductivity	Btu/ft-hr-°F	-	W/m ² K	-
CTE (to 100°C)	10 ⁻⁶ /°F	3.28	10 ⁻⁶ /°C	5.91
Flexural Strength (4-Point)	psi	11,900	MPa	82
Compressive Strength	psi	26,500	MPa	183
Tensile Strength	psi	8,800	MPa	61
Sonic Modulus	10 ⁶ psi	2.58	GPa	17.8
Hardness	Shore	65	Rockwell "L"	69
Gas Permeability	Darcy	-	Darcy	-

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