



Ohio Carbon Blank
 GRAPHITE MACHINING EXPERTS

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ISO-9001:2015 Certified Company

Graphite Material Datasheet

AR-14

AR-14 is a ultrafine grain grain, molded graphite material, and the properties are isotropic.

Common Material Applications:

EDM Applications [Finishing], Crucibles, Ingot Molds, Casting Dies, Extrusion Dies, Heating Elements, & Crystal/Quartz Processing

Material Properties & Characteristics

Grain Type:	Ultrafine Grain
Form Process:	Molded
Special Treatments:	None
Avg Particle Size:	.000197" [5.0 μ]
Bulk Density:	1.86 g/cm ³
Shore Hardness:	80
Electrical Resistivity:	539 μΩ-inch
Flexural Strength:	11,000 lbs/in ²
Compressive Strength:	24,200 lbs/in ²
Tensile Strength:	7,200 lbs/in ²
Young's Modulus:	12.9 GPa
Thermal Conductivity:	102.0 W/m•°K
Thermal Expansion:	3.33 x10-6 /°F [752 - 932° F]
Ash Content:	250 ppm
Porosity:	7.0%
Max Inert Temperature:	5,000° F
Max Block Size:	12 x 24 x 40

all material specifications are considered typical from the manufacturers and/or distributors

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