



Ohio Carbon Blank
GRAPHITE MACHINING EXPERTS

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ISO-9001:2015 Certified Company

Graphite Material Datasheet

AR-06

AR-06 is a fine grain grain, molded graphite material, and the properties are isotropic.

Common Material Applications:

*EDM Applications [Roughing], Crucibles, Casting Dies, Heat Treating Fixtures,
Glass Making Tools, & Bushings*

Material Properties & Characteristics

Grain Type:	Fine Grain
Form Process:	Molded
Special Treatments:	None
Avg Particle Size:	.000472" [12.0 μ]
Bulk Density:	1.78 g/cm ³
Shore Hardness:	62
Electrical Resistivity:	539 μΩ-inch
Flexural Strength:	6,500 lbs/in ²
Compressive Strength:	14,300 lbs/in ²
Tensile Strength:	4,200 lbs/in ²
Young's Modulus:	9.8 GPa
Thermal Conductivity:	102.0 W/m•°K
Thermal Expansion:	2.89 x10-6 /°F [752 - 932° F]
Ash Content:	500 ppm
Porosity:	16.0%
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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