



Ohio Carbon Blank
GRAPHITE MACHINING EXPERTS

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ISO-9001:2015 Certified Company

Graphite Material Datasheet

AR-08

AR-08 is a fine grain grain, molded graphite material, and the properties are isotropic.

Common Material Applications:

EDM Applications [Roughing], Crucibles, Casting Dies, Punch Dies, Furnace Components, Glass Making, Rings, Seals, & Bushings

Material Properties & Characteristics

Grain Type:	Fine Grain
Form Process:	Molded
Special Treatments:	None
Avg Particle Size:	.000433" [11.0 μ]
Bulk Density:	1.81 g/cm ³
Shore Hardness:	65
Electrical Resistivity:	488 μΩ-inch
Flexural Strength:	7,500 lbs/in ²
Compressive Strength:	16,500 lbs/in ²
Tensile Strength:	4,250 lbs/in ²
Young's Modulus:	10.6 GPa
Thermal Conductivity:	103.8 W/m•°K
Thermal Expansion:	2.94 x10 ⁻⁶ /°F [752 - 932° F]
Ash Content:	500 ppm
Porosity:	10.0%
Max Inert Temperature:	5,000° F
Max Block Size:	12 x 24 x 41

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

visit us online at www.ohiocarbonblank.com