



Graphite Material Datasheet

AR-08

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

Common Material Applications: EDM Applications

Material Properties & Characteristics

Grain Type:	Fine Grain
Form Process:	Molded Graphite
Special Treatments:	None
Avg. Particle Size:	.000472" [12 μ]
Bulk Density:	1.80 g/cm ³
Shore Hardness:	65 Shore
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 [CTE]: 752 - 932 °F	2.94 x10-6 /°F
Ash Content:	500 ppm
Porosity:	10%
Max. Inert Temperature	5,000° F

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