



**Graphite Material Datasheet**

**AR-14**

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

Common Material Applications: EDM Applications
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**Material Properties & Characteristics**

Grain Type:	Ultrafine Grain
Form Process:	Molded Graphite
Special Treatments:	None
Avg. Particle Size:	.000197" [5 μ]
Bulk Density:	1.86 g/cm <sup>3</sup>
Shore Hardness:	80 Shore
Electrical Resistivity:	500 μΩ-inch
Flexural Strength:	11,000 lbs/in <sup>2</sup>
Compressive Strength:	24,200 lbs/in <sup>2</sup>
Tensile Strength:	7,200 lbs/in <sup>2</sup>
Young's Modulus:	12.9 GPa
Thermal Conductivity:	102.0 W/m•°K
Thermal Expansion [CTE]: 752 - 932 °F	3.33 x10-6 /°F
Ash Content:	250 ppm
Porosity:	7%
Max. Inert Temperature	5,000° F

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