



**Graphite Material Datasheet**

**DS-4**

*DS-4 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:	.000157" [4 μ]
Bulk Density:	1.88 g/cm <sup>3</sup>
Shore Hardness:	72 Shore
Electrical Resistivity:	500 μΩ-inch
Flexural Strength:	13,050 lbs/in <sup>2</sup>
Compressive Strength:	27,265 lbs/in <sup>2</sup>
Tensile Strength:	7,975 lbs/in <sup>2</sup>
Young's Modulus:	15.2 GPa
Thermal Conductivity:	105.0 W/m•°K
Thermal Expansion [CTE]: 752 - 932 °F	4.00 x10-6 /°F
Ash Content:	700 ppm
Porosity:	11%
Max. Inert Temperature	5,000° F

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