



Ohio Carbon Blank
 GRAPHITE MACHINING EXPERTS

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ISO-9001:2015 Certified Company

Graphite Material Datasheet

DS-4

DS-4 is a ultrafine grain grain, molded graphite material, and the properties are isotropic.

Common Material Applications:

EDM Applications [Finishing], Crucibles, Ingot Molds, Casting Dies, Heating Elements, Tooling, Fuel Cells, & Batteries

Material Properties & Characteristics

Grain Type:	Ultrafine Grain
Form Process:	Molded
Special Treatments:	None
Avg Particle Size:	.000157" [4.0 μ]
Bulk Density:	1.88 g/cm ³
Shore Hardness:	72
Electrical Resistivity:	500 μΩ-inch
Flexural Strength:	13,000 lbs/in ²
Compressive Strength:	27,265 lbs/in ²
Tensile Strength:	7,500 lbs/in ²
Young's Modulus:	15.2 GPa
Thermal Conductivity:	105.0 W/m•°K
Thermal Expansion:	4.00 x10 ⁻⁶ /°F [752 - 932° F]
Ash Content:	700 ppm
Porosity:	11.0%
Max Inert Temperature:	5,000° F
Max Block Size:	4 x 12 x 24

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

visit us online at www.ohiocarbonblank.com