



**Ohio Carbon Blank**  
 GRAPHITE MACHINING EXPERTS

**440-953-9302**  
 fax 440-953-5829  
**800-448-8887**

38403 Pelton Road  
 Willoughby, Ohio 44094-7221  
 www.ohiocarbonblank.com

ISO-9001:2015 Certified Company

**Graphite Material Datasheet**

**UT-3**

*UT-3 is a fine grain grain, molded graphite material, and the properties are isotropic.*

**Common Material Applications:**

*Graphite Rings, Washers, Seals, & Bushings*

**Material Properties & Characteristics**

Grain Type:	Fine Grain
Form Process:	Molded
Special Treatments:	None
Avg Particle Size:	.000470" [11.9 μ]
Bulk Density:	1.78 g/cm <sup>3</sup>
Shore Hardness:	62
Electrical Resistivity:	539 μΩ-inch
Flexural Strength:	6,500 lbs/in <sup>2</sup>
Compressive Strength:	14,000 lbs/in <sup>2</sup>
Tensile Strength:	4,000 lbs/in <sup>2</sup>
Young's Modulus:	N/A
Thermal Conductivity:	102.0 W/m•°K
Thermal Expansion:	2.89 x10-6 /°F [32 - 212° F]
Ash Content:	500 ppm
Porosity:	16.0%
Max Inert Temperature:	Not Available
Max Block Size:	12 x 24 x 40

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

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