



**Ohio Carbon Blank**  
GRAPHITE MACHINING EXPERTS

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ISO-9001:2015 Certified Company

## Graphite Material Datasheet

# UT-2E

*UT-2E is a coarse grain grain, extruded graphite material, and the properties are isotropic.*

### Common Material Applications:

*Heat Treating, Welding Fixtures, & Heating Elements*

### Material Properties & Characteristics

|                         |                           |
|-------------------------|---------------------------|
| Grain Type:             | Coarse Grain              |
| Form Process:           | Extruded                  |
| Special Treatments:     | None                      |
| Avg Particle Size:      | .030000" [762.0 μ]        |
| Bulk Density:           | 1.72 g/cm <sup>3</sup>    |
| Shore Hardness:         | 40                        |
| Electrical Resistivity: | 320 μΩ-inch               |
| Flexural Strength:      | 2,450 lbs/in <sup>2</sup> |
| Compressive Strength:   | 5,450 lbs/in <sup>2</sup> |
| Tensile Strength:       | 1,950 lbs/in <sup>2</sup> |
| Young's Modulus:        | N/A                       |
| Thermal Conductivity:   | 133.2 W/m•°K              |
| Thermal Expansion:      | 1.50 x10-6 /°F            |
| Ash Content:            | 1,100 ppm                 |
| Porosity:               | 13.0%                     |
| Max Inert Temperature:  | Not Available             |
| Max Block Size:         | 16 x 32 x 72              |

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

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