

**GRAFSTAR™****Grade DLE Extruded Graphite**

## Technical Data Sheet 5075

**Product Overview**

Densified prior to graphitization, GRAFSTAR™ DLE material is good for applications requiring a cost effective solution.

**Applications**

- Heater Rods
- Heating Elements
- Contacts and Holders

**Sizes\***

- 3"-9" diameter rounds, Available in 40", 48", 60", 65", & 72" lengths
- 7.5 - 22.5 cm diameter rounds, Available in 102, 122, 152, 165, & 182 cm lengths

**Typical Properties at Room Temperature\*\***

Characteristic	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft <sup>3</sup>	104		g/cm <sup>3</sup>	1.67	
Hardness	Rockwell R	60		Rockwell R	60	
Maximum Particle Size	inches	0.03		mm	0.79	
Specific Resistance	10 <sup>-4</sup> Ωin	3.1	3.8	μΩm	7.9	9.8
Flexural Strength	psi	2900	1800	MPa	20	12
Young's Modulus	10 <sup>6</sup> psi	1.7	1.0	GPa	12	7
Tensile Strength	psi	2000	1200	MPa	14.0	8.3
Compressive Strength	psi	5600		MPa	38.6	
Permeability	Darcy	0.031	0.027	Darcy	0.031	0.027
Thermal Conductivity	BTU-ft/hr ft <sup>2</sup> °F	90	65	W/mK	160	115
CTE (RT to 100 °C)	10 <sup>-6</sup> /°F	0.7	1.6	10 <sup>-6</sup> /K	1.2	2.8
Ash Content	%	0.15		%	0.15	
Porosity	%	60		%	60	

**Notes:**

\* Other sizes available upon request

\*\* Properties listed are typical and cannot be used as accept/reject specifications

