



Technical Data Sheet 5075

Grade DLE Extruded Graphite

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 ³	104		g/cm ³	1.67	
Hardness	Rockwell R	60		Rockwell R	60	
Maximum Particle Size	inches	0.03		mm	0.79	
Specific Resistance	10 ⁻⁴ Ωin	3.1	3.8	μΩm	7.9	9.8
Flexural Strength	psi	2900	1800	MPa	20	12
Young's Modulus	10 ⁶ 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 ² °F	90	65	W/mK	160	115
CTE (RT to 100 °C)	10 ⁻⁶ /°F	0.7	1.6	10 ⁻⁶ /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