

UCAR Carbon UCAR® CS Extruded Graphite

Category : Carbon , Graphite

Material Notes:

Densified prior to graphitization, Grade CS is an extruded graphite 25-30% higher in strength than CBY. Grade CS is a low ash graphite with an oxidation resistance similar to grade CBY. It is the material of choice for applications requiring higher densities, better mechanical strength, or less porosity than grade CBY. Grade CS is the most popular multi-purpose grade. In sizes less than 3" dia CS particle size is reduced to improve characteristics. Typical Applications: Casting molds and furnace parts for hot metal Powder metallurgy Boats and trays for sintering applications Resistance heating Crucibles for melting and alloying Furnace components Refractory Systems applications such as blast furnace and submerged arc furnace linings Tabular property data is typical. Information provided by UCAR Carbon Company, a GrafTech International Ltd. company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UCAR-Carbon-UCAR-CS-Extruded-Graphite.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	
Particle Size	<= 750 µm	<= 750 µm	
Ash	0.090 %	0.090 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	22.1 MPa	3200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	2.50 µm/m-°C	1.39 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000750 ohm-cm	0.000750 ohm-cm	

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