

GRAFTech International

CBY™ Graphite

GrafTech International is a global leader in graphite and carbon products. We enable customer leadership better and faster than our competition, through the creation, innovation and manufacture of carbon and graphite material science based solutions.

Grade CBY™ Graphite

Grade CBY™ graphite is a general purpose, cost effective extruded graphite with improved strength, structure and density characteristics. It is a low ash graphite for superior oxidation resistance.

Typical Applications

- Heat treating boats and trays
- Fused refractory molds
- Induction furnace susceptor
- Furnace parts
- Aluminum runout tables

Sizes

10 – 24 x 72" diameter rounds
 12 x 14 x 72"
 15 x 30 x 72"
 17 x 17 x 72"
 17 x 17 x 88"
 19 x 19 x 72"
 24 x 24 x 72" rectangles

Typical Properties

	<u>ENGLISH</u>	<u>WG</u>	<u>AG</u>	<u>METRIC</u>	<u>WG</u>	<u>AG</u>
Density	lbs/ft ³	104		g/cm ³	1.66	
Maximum Particle Size	inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ω in.	3.2	3.9	μΩm	8.1	9.9
Flexural Strength	psi	2400	1900	kg/cm ²	170	140
Young's Modulus	10 ⁶ psi	1.32	0.96	kg/mm ²	930	680
Tensile Strength	psi	1950	1300	kg/cm ²	140	90
Compressive Strength	psi	5200	5350	kg/cm ²	370	380
Permeability	Darcy	0.13	0.16	Darcy	0.13	0.16
Hardness	Rockwell "R"	70		Rockwell "R"	70	
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	1.4	2.0	10 ⁻⁶ /°C	2.5	3.6
Thermal Conductivity	BTU-ft/hr ft ² °F	85	75	W/mK	145	130
Ash Content	%	0.07		%	0.07	

This information is based on data believed to be reliable but GrafTech makes no warranties, express or implied, as to its accuracy and assumes no liability arising out of its use. The data listed falls within the normal range of product properties but should not be used to establish specification limits or used alone as the basis of design. GrafTech's liability to purchasers is expressly limited to the terms and conditions of sale. CBY is a trademark of GrafTech International Holdings Inc.

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101 N. Philippi Pike, Anmoore, WV 26323-0120
Ph: +1-800-842-8805; +1-304-624-1253

La Lechere, 73264 Aigueblanche Cedex, France
Ph: +33 04 79 41 45 00

Via Forno Allione, 2, I-25040 Malonno, Brescia, Italy
Ph: +39 03 64 63 01 31

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