

GRAFTech International YBD™ Grade Carbon

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 solution

YBD™ Extruded Carbon

Grade YBD is an extruded carbon which has been specifically produced for electrolysis in fluorine applications.

Typical Applications

- Anodes for fluorine cells
- Cathodes for fluorine cells
- Electrolysis involving the presence of fluorine

Sizes:

	Standard Sizes	
1.	2" x 7" x 25.5"	51 mm x 178 mm x 648 mm
2.	2" x 8" x 25.5"	51 mm x 203 mm x 648 mm

Custom lengths are also available

Typical Properties (Room Temperature)*

	<u>ENGLISH</u>	<u>WG</u>	<u>AG</u>	<u>SI</u>	<u>WG</u>	<u>AG</u>
Density	lbs/ft ³	97		g/cm ³	1.55	
Maximum Particle Size	Inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ω in.	16.7	20.1	μΩm	42.4	51.1
Flexural Strength	Psi	2,600	2,350	MPa	18	16
Young's Modulus	10 ⁻⁶ Psi	2.0	1.5	GPa	13.8	10.3
Tensile Strength	psi	2,300	1,850	MPa	16	13
Compressive Strength	psi	6,600		MPa	46	
Permeability	Darcy	0.14	0.10	Darcy	0.14	0.10
Thermal Conductivity	BTU-ft/hr ft ² °F	4	3	W/mK	7	5
CTE (RT to 100°C)	10 ⁻⁶ /°F	1.4	2.3	10 ⁻⁶ /K	2.5	4.1
Ash Content	%	0.2		%	0.2	
Porosity	%	21		%	21	

* Please contact GrafTech for high temperature and additional properties

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.

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