

GRAFTech International

YBDX™ 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 solutions.

YBDX™ Carbon

Grade YBDX™ carbon has enhanced properties over those of YBD™ carbon. Grade YBDX™ carbon has higher density and mechanical properties, and lower porosity. This grade is specially manufactured for electrolysis involving fluorine applications.

Typical Applications

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

Sizes

2" x 7" x 25.5" 51 mm x 178 mm x 648 mm
 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	100		g/cm ³	1.6	
Maximum Particle Size	Inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ω in.	16.7	20.1	μΩm	42.5	51.1
Flexural Strength	Psi	3,300	3,000	MPa	23	21
Young's Modulus	10 ⁶ Psi	2.1	1.5	GPa	14	10
Tensile Strength	psi	2,570	1,950	MPa	18.0	13.5
Compressive Strength	psi	10,400		MPa	72	
Permeability	Darcy	0.01		Darcy	0.01	
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	%	15		%	15	

*Please contact GrafTech for high temperature and additional properties

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