

YBD Carbon

Technical Data Sheet 4050

Product Overview

GRAFSTAR™ YBD carbon has been specifically produced for electrolysis in fluorine applications.

Applications

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

Sizes*

Standard 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

Typical Properties at Room Temperature**

Characteristic	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft ³	97		g/cm ³	1.55	
Maximum Particle Size	inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ωin	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	

Notes:

* Custom lengths also available

** Properties listed are typical and cannot be used as accept/reject specifications

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