

Impervious Graphite Plate Specifications

Description:

Resin-filled grade that combines the best properties of graphite such as high electrical conductivity, high thermal conductivity, chemical resistance and easy machining with low permeability of molded composites.

- Graphite, impervious bipolar plate, typically used for hydrogen electrolysis
- Phenolic resin impregnated bipolar plate blank - suitable for fuel cells, transport applications, and for stationary and portable battery application

PROPERTY	US	METRIC
Density	0.069 lb/in ³	1.90 g/cc
Particle Size	0.00059 in	0.0015 cm
Shore Hardness	62	62
Flexural Strength	7,900 psi	55 mpa
Compressive Strength	16,000 psi	110 mpa
Maximum Temperature	500°F	260°C
Porosity	0% VOL	0% VOL
Electrical Resistivity	0.00047 ohm/inch	12 μΩm
Thermal Conductivity	63 BTU/(h.ft ² °F/ft)	108 W/(mK)
CTE	2.6 in/in °F x 10 ⁻⁶	4.68 x 10 ⁻⁶ °C