

PGW Graphite

Technical Data Sheet 5072

Product Overview

An economical low ash material with excellent thermal shock resistance, GRAFSTAR™ PGW graphite is well suited for the fine machining detail required in molds for casting metal shapes. PGW graphite is a molded version of grade CBY graphite with excellent internal structure.

Applications

- Pressure casting molds
- Centrifugal casting molds
- Large diameter susceptors

Sizes

Standard Sizes	
44" x 15"	1118 x 381 mm
44" x 23"	1118 x 584 mm
50" x 15"	1270 x 381 mm
50" x 23"	1270 x 584 mm
52" x 23"	1321 x 584 mm

Typical Properties at Room Temperature*

Characteristic	Unit	WG	AG
Bulk Density	g/cc	1.63	-
Specific Resistance	μΩm	8.6	9.5
Flexural Strength	psi	2000	1960
Young's Modulus	10 ⁶ psi	1.01	0.99
Tensile Strength	psi	1300	1150
Compressive Strength	psi	4600	4960
Permeability	Darcy	-	0.16
Hardness	Shore	31	-
C.T.E.	10 ⁻⁶ /°C	3	3.6
Ash Content	%	0.12	-

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

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Redefining limits