

PGWX Graphite

Technical Data Sheet 6033

Product Overview

GRAFSTAR™ PGWX graphite is a low ash material with excellent thermal shock resistance and is well-suited for fine machining detail.

Applications

- Large diameter molds and crucibles
- Heat exchangers
- Chemical processing equipment

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		Unit	AG	
Density	lbs/ft ³	103		g/cm ³	1.66	
Maximum Particle Size	inches	0.03		mm	0.76	
Specific Resistance	10 ⁻⁴ Ωin	3.2	3.6	μΩm	8.2	9.1
Flexural Strength	psi	2700	2500	MPa	19	17
Young's Modulus	10 ⁶ psi	1.3	1.0	GPa	9.0	6.9
Tensile Strength	psi	1900	1700	MPa	13	12
Compressive Strength	psi	6400	6200	MPa	44	43
Permeability	Darcy	0.08		Darcy	0.08	
Hardness	Rockwell "R"	35		Rockwell "R"	35	
C.T.E. (RT to 100°C)	10 ⁻⁶ /°F	1.7	1.9	10 ⁻⁶ /°C	3.1	3.5
Ash Content	%	0.10		%	0.10	

Notes:

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

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Redefining limits