

# DBX88 Graphite

Technical Data Sheet 6056

## Product Overview

GRAFSTAR™ DBX88 graphite offers 35% higher strength than GRAFSTAR™ DBX graphite. It is the material of choice for applications requiring high densities, excellent mechanical strength, and very low porosity.

## Applications

- Casting molds and furnace parts for hot metal
- Powder metallurgy
- Boats and trays for sintering applications
- Resistance heating
- Crucibles for melting and alloying

## Sizes\*

Shape	Measurement	Unit	Size	Unit	Size
Round	Diameter	in	3 - 30 x 72	mm	76 - 762 x 1830
Rectangle	Length	in	17 x 17 x 72	mm	432 x 432 x 1830
Rectangle	Length	in	17 x 17 x 88	mm	432 x 432 x 2235
Rectangle	Length	in	19 x 19 x 72	mm	480 x 480 x 1830
Rectangle	Length	in	24 x 24 x 72	mm	610 x 610 x 1830

## Typical Properties at Room Temperature\*\*

Characteristic	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft <sup>3</sup>	112		g/cm <sup>3</sup>	1.80	
Maximum Particle Size	inches	0.03		mm	0.76	
Specific Resistance	10 <sup>-4</sup> Ωin	2.9	3.9	μΩm	7.3	9.9
Flexural Strength	psi	4200	2780	MPa	29	19
Young's Modulus	10 <sup>6</sup> psi	2.21	1.43	GPa	13	9
Tensile Strength	psi	2610	2030	MPa	17	13
Compressive Strength	psi	7540	7400	MPa	51	50
Permeability	Darcy	0.004	0.002	Darcy	0.004	0.002
C.T.E. (to 100°C)	10 <sup>-6</sup> /°F	1.5	2.0	10 <sup>-6</sup> /°C	2.5	3.5

Notes:

\* Other sizes available upon request

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

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**Redefining limits**