

# AGSX™ Graphite

GrafTech International is a global leader in graphite and carbon products. We enable customer leadership better and faster than our competition, through the creation, innovation and manufacture of carbon and graphite material science based solutions.

## Grade AGSX™ Graphite

Densified prior to graphitization, Grade AGSX™ material is good for applications requiring high densities and good mechanical properties.

## Typical Applications

- Furnace parts
- Powder metallurgy

## Sizes

3"-9" diameter rounds

Available in 40", 48", 60", 65", & 72" lengths

75 – 225 mm diameter rounds

Available in 1016, 1219, 1524, 1651, & 1829 mm lengths

*Other sizes available on request*

## Typical Properties at Room Temperature

	<u>ENGLISH</u>	<u>WG</u>	<u>AG</u>	<u>SI</u>	<u>WG</u>	<u>AG</u>
Density	lbs/ft <sup>3</sup>	107		g/cm <sup>3</sup>	1.72	
Maximum Particle Size	Inches	0.03		mm	0.76	
Specific Resistance	10 <sup>-4</sup> Ω in.	2.8	3.9	μΩm	7	10
Flexural Strength	psi	3350	2200	MPa	23	15
Young's Modulus	10 <sup>6</sup> psi	1.9	1.0	GPa	13	7
Tensile Strength	psi	2750	1600	MPa	19	11
Compressive Strength	psi	6500		MPa	45	
Permeability	Darcy	0.008	0.004	Darcy	0.008	0.004
Thermal Conductivity	BTU-ft/hr ft <sup>2</sup> °F	100	70	W/mK	170	120
CTE (RT to 100 °C)	10 <sup>-6</sup> /°F	0.7	1.7	10 <sup>-6</sup> /K	1.2	3.1
Ash Content	%	0.15		%	0.15	
Porosity	%	16		%	16	

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