

Grade AGSX Extruded Graphite

Since 1886, UCAR Carbon Company has been supplying quality carbon and graphite products, skilled technical service, and experienced application assistance worldwide.

Advanced Graphite Materials

GRADE AGSX EXTRUDED 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
 Other sizes available on request

Typical Properties at Room Temperature

	<u>ENGLISH</u>	<u>WG</u>	<u>AG</u>	<u>METRIC</u>	<u>WG</u>	<u>AG</u>	<u>SI</u>	<u>WG</u>	<u>AG</u>
Density	lbs/ft ³	107		g/cm ³	1.72		g/cm ³	1.72	
Maximum Particle Size	Inches	0.030		mm	0.76		mm	0.76	
Specific Resistance	10 ⁻⁴ Ω in.	2.8	3.9	μΩm	7.0	10.0	μΩm	7.0	10.0
Flexural Strength	psi	3335	2175	kg/cm ²	234	153	MPa	23	15
Young's Modulus	10 ⁻⁶ psi	1.88	1.01	kg/mm ²	1325	714	GPa	13.0	7.0
Tensile Strength	psi	2755	1595	kg/cm ²	194	112	MPa	19	11
Compressive Strength	psi	6524	6524	kg/cm ²	459	459	MPa	45	45
Permeability	Darcy	0.008	0.004	Darcy	0.008	0.004	Darcy	0.008	0.004
Hardness	Rockwell "R"	80		Rockwell "R"	80		Rockwell "R"	80	
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	0.8	1.7	10 ⁻⁶ /°K	1.4	3.0	10 ⁻⁶ /°K	1.4	3.0
Thermal Conductivity	BTU-ft/hr ft ² °F	98	69	W/mK	170	120	W/mK	170	120
Ash Content	ppm	1000		ppm	1000		ppm	1000	

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