

Grade CGW™ Isomolded 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 CGW™ Isomolded Graphite

Isostatically molded UCAR® Grade CGW is an ATJ™-based material that has been processed to higher density and strength. UCAR Grade CGW is characterized by low permeability, erosion resistance and surface hardness.

Typical Applications

- Continuous casting dies
- Hot pressing dies and molds

Sizes

Grade CGW Isomolded: 16 x 16 x 65" rectangles
 12 x 25 x 80" rectangles
 8" – 24" diameter x 72" long rounds

Typical Properties at Room Temperature

	<u>ENGLISH</u>	<u>AG</u>	<u>METRIC</u>	<u>AG</u>
Density	lbs/ft ³	112	g/cm ³	1.80
Average Particle Size	inches	0.001	mm	0.025
Specific Resistance	10 ⁻⁴ Ω in.	4.61	μΩm	11.7
Flexural Strength	psi	5000	kg/cm ²	350
Young's Modulus	10 ⁻⁶ psi	1.55	kg/mm ²	1090
Tensile Strength	psi	4500	kg/cm ²	320
Compressive Strength	psi	11200	kg/cm ²	790
Permeability	Darcy	0.0005	Darcy	0.0005
Hardness	Rockwell "L"	90	Rockwell "L"	90
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	1.35	10 ⁻⁶ /°C	2.5
Thermal Conductivity	BTU-ft/hr ft ² °F	70	W/mK	120
Ash Content	%	0.09	%	0.09

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