

Grade ATC™ 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 ATC™ Isomolded Graphite

UCAR® Grade ATC is a premium fine grain graphite, isostatically molded to the most demanding quality standards. It can be machined to very precise tolerances and a polished surface finish. This grade is specifically manufactured for continuous casting mold and die applications.

Typical Applications

- Continuous casting dies
- Hot pressing dies and molds

Sizes

Grade ATC 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>METRIC</u>	
Density	lbs/ft ³	109	g/cm ³	1.75
Average Particle Size	inches	0.001	mm	0.025
Specific Resistance	10 ⁻⁴ Ω in.	5.7	μΩm	14.5
Flexural Strength	psi	4450	kg/cm ²	310
Young's Modulus	10 ⁻⁶ psi	1.65	kg/mm ²	1160
Tensile Strength	psi	4110	kg/cm ²	290
Compressive Strength	psi	10200	kg/cm ²	710
Permeability	Darcy	0.003	Darcy	0.003
Hardness	Rockwell "L"	90	Rockwell "L"	90
C.T.E. (to 100 °C)	10 ⁻⁶ /°F	1.6	10 ⁻⁶ /°C	2.9
Thermal Conductivity	BTU-ft/hr ft ² °F	58	W/mK	100
Ash Content	%	0.09	%	0.09

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P.O. Box 2230, Clarksburg, WV 26302-2330
 Phone 1-800-842-8805; Fax 1-304-624-1269
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 GrafTech International Ltd.

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