



ACC 300 Series Molded Graphite Defined

Known for its workhorse performance, the 300 series features high mechanical strength and low porosity at an affordable price. All 300 Series Molded Graphite is densified prior to graphitization to provide consistent density material with low porosity.

Standard Applications

- Casting molds for hot metals and ceramics
- Furnace parts and protection
- Crucibles for melting and alloying
- Machined wear parts
- Boats and trays for sintering applications
- Parts for aluminum gas injection systems
- Resistance Heating

Standard Sizes*

Description	Dimensions (English)	Dimensions (Metric)
Round	4" - 16" \varnothing x 72" length	102-406 mm \varnothing x 1829mm length
Block	16" x 16" x 72"	406mm x 406mm x 1829mm
Block	20" x 20" x 72"	508mm x 508mm x 1829mm
Block	16" x 25" x 72"	406mm x 635mm x 1829mm
Block	16" x 16" x 80"	406mm x 406mm x 2032mm
Block	20" x 20" x 80"	508mm x 508mm x 2032mm

*Custom Blocks are available upon request. Maximum allowable dimensions is 25.5" x 23.6" x 108.6" or 650mm x 600mm x 2758mm.

Table of Properties at 65°F

Physical Properties	English	Metric
Density	0.063 lb/in ³	1.74 g/cm ³
Maximum Particle Size	0.0315 in	0.8 mm
Porosity	15-17%	15-17%
Specific Resistance	0.2 $\mu\Omega \cdot \text{in}$	8 $\mu\Omega \cdot \text{m}$
Ash Content	$\leq 0.1\%$	$\leq 0.1\%$
Flexural Strength	2,103 psi	14.5 mpa
Compressive Strength	5,340 psi	36.8 mpa
C.T.E. (100-600°C)	1.7 $10^{-6}/^{\circ}\text{F}$	2.9 $10^{-6}/^{\circ}\text{C}$
Allowable Tolerance Width	± 0.079 in	± 2 mm
Allowable Tolerance Height	± 0.079 in	± 2 mm
Allowable Tolerance Length	± 0.79 in	± 20 mm
Allowable Tolerance Diameter	± 0.079 in	± 2 mm
Allowable Camber	0.5%	0.5%

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