



ACC 100 Series Extruded Graphite Defined

The 100 Series is the most economical grade of graphite ACC offers. With larger tolerances in grain size, the porosity is slightly higher than other graphite. Functions best is low tolerance uses where many of the properties of graphite are required without the specific machining requirements.

Standard Applications

- Furnace parts and protection
- Crucibles for melting and alloying
- Boats and trays for sintering applications
- Resistance Heating

Standard Sizes*

Description	Dimensions (English)	Dimensions (Metric)
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 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 32.0" x 92.0" or 650mm x 812mm x 2,336mm.

Table of Properties at 65°F

Physical Properties	English	Metric
Density	≥ 0.0569 lb/in ³	≥ 1.58 g/cm ³
Maximum Particle Size	0.158 in	4 mm
Specific Resistance	≤ 0.24 μΩ•in	≤ 9.5 μΩ•m
Ash Content	≤ 0.1%	≤ 0.1%
Bending Strength	≥ 1,160 psi	≥ 8 mpa
Compressive Strength	≥ 3,915 psi	≥ 27 mpa
C.T.E. (100-600°C)	≤ 44 10 ⁻⁶ /°F	≤ 3.0 10 ⁻⁶ /°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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