



### ACC 500 Series Isostatically Molded Graphite Defined

The 500 series is American Carbon Company's true isostatically molded graphite. It is a solid solution that meets many specification requirements for many industries.

### Standard Applications

- Continuous Casting dies
- Hot pressing dies and molds
- Plungers and rams
- Mandrels
- Solar industry applications
- LED and semiconductor applications

### Standard Sizes\*

Description	Dimensions (English)	Dimensions (Metric)	Density
50-501	44" x 22" x 7"	1117mm x 558mm x 177mm	1.85 g/cm <sup>3</sup>
50-510	44" x 22" x 7"	1117mm x 558mm x 177mm	1.80 g/cm <sup>3</sup>
50-511	42" x 22" x 13"	1066mm x 558mm x 330mm	1.80 g/cm <sup>3</sup>

\*Custom Blocks are available upon request.

### Table of Properties at 65°F

Physical Properties	English	Metric
Density	0.0646 lb/in <sup>3</sup> to 0.0668 lb/in <sup>3</sup>	1.80 g/cm <sup>3</sup> to 1.86 g/cm <sup>3</sup>
Specific Resistance	0.2 μΩ•in	8 μΩ•m
Maximum Particle Size	0.0035 in	0.090 mm
Flexural Strength	3,770 psi	26 mpa
Compressive Strength	7,977 psi	55 mpa
Ash Content	0.1% max	0.1% max
C.T.E. (100-600°C)	2.0 10 <sup>-6</sup> /°F	3.6 10 <sup>-6</sup> /°C
Allowable Tolerance Width	± 0.079 in	± 2 mm
Allowable Tolerance Height	± 0.079 in	± 2 mm
Allowable Tolerance Length	± 0.079 in	± 2 mm
Allowable Camber	0.5%	0.5%

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