

# SPECIALTY GRAPHITE AUSTRALIA

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## Fine Grain Block Specifications

### Description:

Available in three grades: Premium, Super-Premium and Ultra-Premium.

Our fine grained, isotropic graphite is ideal for cost effective parts.

### Typical Applications:

- Rocket Nozzles
- Permanent moulds
- Aluminium industry, guides and run out tables
- Hot pressing moulds & Punches
- Sintering plates, trays and fixtures
- Moulds, crucibles & lids
- Bearings Bushings & Guides
- Continuous casting rod and strip dies

### Common Sizes mm:

#### Blocks:

- 100x100x400
- 150x150x400
- 300x200x120
- 380x300x150
- 490x300x150/180
- 510x310x160/180/210
- 550x410x180/210/250

#### Rounds:

- 110/135/160 D x250
- 190/260/300 D x300
- 240Dx410, 300Dx260, 320Dx240, 350Dx310
- 400Dx400, 460D x400, 530Dx530, 630Dx630

Specification	Unit of Measurement	Fine Grain Premium	Fine Grain Super-Premium	Fine Grain Ultra-Premium
Bulk Density	g/cm <sup>3</sup>	1.68	1.78	1.83
Max Particle size	mm	0.045	0.045	0.045
Specific resistance	μΩm	9	8.0	7.25
Coefficient of Thermal Expansion (to 100 C)	10 <sup>-6</sup> /°C	2.5	2.7	2.7
Thermal Conductivity	W/mK	NA	95	125
Compressive Strength	MPa	57	60	100
Flexural Strength	MPa	27	30	48
Ash Content	%	0.05	0.05	0.05
Hardness	Rockwell R	80	85	90
Porosity	%	14-16	12-14	<12

The above data should be regarded as general information, not guaranteed specification limits.