

# SPECIALTY GRAPHITE AUSTRALIA

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## Medium Grain Block Specifications

### Description:

- **Medium Grain Premium**
  - Our Premium Grade medium grain size material is a popular, multi-purpose grade.
  
- **Medium Grain Ultra-Premium**
  - Ultra-Premium is 15-20% stronger than Premium Grade.
  - Offering higher density, better mechanical strength and less porosity than Premium Grade.

### Typical Applications:

- Aluminium run out tables and guides
- Casting moulds for ingots, furnace parts
- Boats and trays for sintering applications
- Crucibles for melting and alloying
- Glasswork
- Vacuum Furnaces
- Thermal Energy Storage

### Common Sizes mm:

- 100x100x400, 150x150x400
- 400x400x1830, 650x500x1830/2200
- Dia400/500/600x1830
- Dia760/810/910/1000x600
- Dia1400/1550x500

### Specifications:

Measurement	Unit of Measurement	Medium Grain Premium	Medium Grain Ultra-Premium
Bulk Density	g/cm <sup>3</sup>	1.72	1.76
Maximum Particle Size	mm	0.8	0.8
Specific Resistance	μΩm	8.5	8.0
Coefficient of Thermal Expansion (to 100°C)	10 <sup>-6</sup> /°C	2.5	2.4
Thermal Conductivity	W/mK	160	162
Compressive Strength	MPa	35	39
Flexural Strength	MPa	16	19
Ash Content	%	0.2	0.2
Porosity	%	20	20

The above information is given in good faith however it is not a guarantee