



PCC Grade

Description:

Available in three grades, X1, X2, & X3.

PCC Graphite is a fine grain, isotropic graphite 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

Specifications:

PCC Graphite - X1, X2, X3:

Specification	Unit of Measurement	PCC-X1	PCC-X2	PCC-X3
Bulk Density	g/cm ³	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 ⁻⁶ /°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

Graphite Australia

www.Graphite-Australia.com



The above information is given in good faith however it is not a guarantee of specification limits.