



PYROCAST NZ

SMALL COMPONENT REFRACTORY

Pyrocast NZ is a premium, small component, fused silica refractory castable. The refractory is non-wetting to molten aluminium and its alloys, and is high-strength and erosion resistant because of its optimized packing density. Pyrocast NZ cast parts are heat-treated to remove any free or combined water prior to shipment.

COMPOSITION

Material	Approximate Percentage of Weight
SiO ₂	74%
Al ₂ O ₃	16%
CaO	4%
Other	6%

BENEFITS

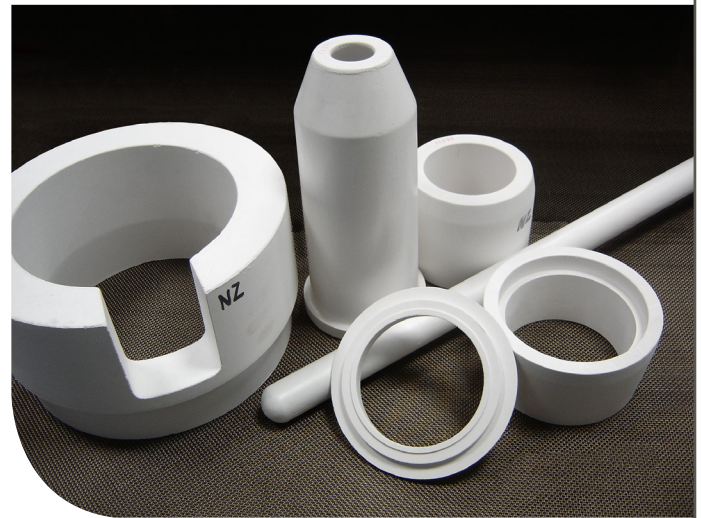
- Thermal shock resistant
- High erosion resistance
- High service temperature
- Smooth cast surface
- Dimensionally stable
- Easily cleaned
- Non-wetting to aluminium

APPLICATIONS

- Thimbles
- Transition plates
- Down spouts
- Control pins
- Sleeves
- Headers
- Dosing tubes

AVAILABILITY

Precast shapes



PHYSICAL PROPERTIES

Property	Value
Density–kg/m ³ (lb/ft ³)	1780 (111.12)
Modulus of Rupture–MPa (psi)	8.60 (1247.32)
Apparent Porosity	22–23%
Mean Thermal Expansion Coefficient at 20–725°C (77–1337°F)	3.33 x 10 ⁻⁶
Maximum Service Temperature	1000°C (1832°F)
Thermal Conductivity–W/m·K (BTU·in/ft ² ·hr·°F)	
at 200°C (392°F)	0.91 (6.32)
at 500°C (932°F)	1.01 (7.01)
at 720°C (1328°F)	1.10 (7.63)
at 800°C (1472°F)	1.11 (7.70)

