

PYROCAST 1100

MOLTEN ALUMINIUM INSULATING REFRACTORY SHAPES

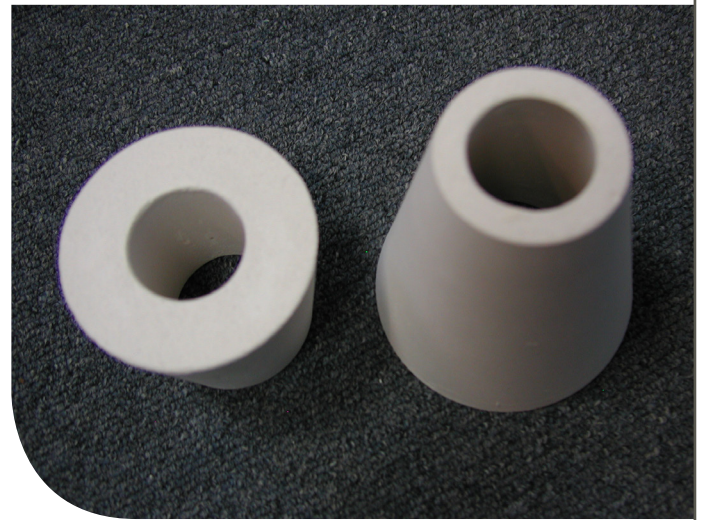
Pyrocast 1100 pre-fired refractory shapes are used in liquid aluminium casting applications. The refractory has low thermal conductivity, is thermal shock resistant and molten aluminium attack resistant.

PHYSICAL PROPERTIES

Property	Value
Bulk Density—kg/m ³ (lb/ft ³)	1100 (68.67)
Maximum Service Temperature	900°C (1652°F)
Modulus of Rupture—MPa (psi)	2.88 (417.71)
Thermal Expansion Coefficient—mm/mm/°C (in/in/°F) at 20–800°C (68–1472°F)	5.09 x 10 ⁻⁶ (2.83 x 10 ⁻⁶)
Thermal Conductivity—W/m·K (BTU-in/ft ² ·hr·°F) at 500°C (932°F)	0.356 (2.47)
at 720°C (1328°F)	0.375 (2.60)
at 800°C (1472°F)	0.423 (2.94)

BENEFITS

- Non-wetting to molten aluminium
- Low thermal conductivity
- Thermal shock resistant



APPLICATIONS

- Down spouts
- Floats
- Riser inserts
- Sprue bushings

AVAILABILITY

Precast shapes

