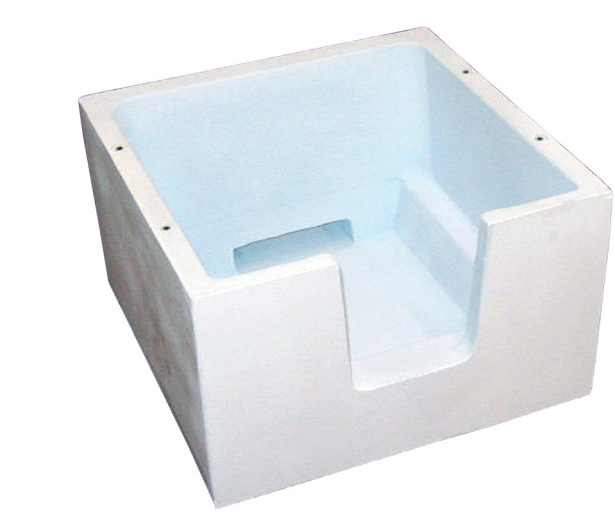
PYROCAST XP

PRECAST HIGH STRENGTH REFRACTORY

Pyrocast XP is a high strength, fused silica castable refractory that exhibits excellent thermal shock resistance. It is resistant to liquid aluminium and its alloys, and offers excellent resistance to erosion and mechanical damage.



COMPOSITION

Material	Approximate Weight
SiO_2	75.0%
Al_2O_3	22.1%
CaO	2.0%

BENEFITS

- Dimensionally stable
- Thermal shock resistant
- Easy clean-up
- Extremely durable
- Smooth cast surface
- Non-wetting

APPLICATIONS

- Transfer and stub troughs
- Launder linings
- Filter boxes
- Sheet ingot spouts

AVAILABILITY

- Precast shapes
- Relines with steel work components

Pyrotek

PYROCAST XP

Property	Temperature	Value
Density–kg/m³ (lb/ft³)	110°C (230°F)	2050 (127.7)
	500°C (932°F)	2060 (128.3)
	955°C (1750°F)	2060 (128.3)
Linear Expansion	110°C (230°F)	0.0%
	500°C (932°F)	–0.1%
	955°C (1750°F)	–0.1%
Modulus of Rupture–MPa (psi)	110°C (230°F)	10.4 (1505)
	500°C (932°F)	8.6 (1245)
	955°C (1750°F)	8.6 (1250)
Cold Crushing Strength–MPa (psi)	110°C (230°F)	79.6 (11,554)
	500°C (932°F)	53.4 (7750)
	955°C (1750°F)	58.8 (8525)
Hot Modulus of Rupture–MPa (psi)	815°C (1500°F)	19.0 (2762)
Abrasion Resistance–cm³ (in³)	955°C (1750°F)	8–10 (0.49–0.61)
Thermal Conductivity–W/m·K (BTU·in/ft²·hr·°F)	110°C (230°F)	1.20 (8.3)
	500°C (932°F)	1.15 (8.0)
	955°C (1750°F)	1.20 (8.4)
Porosity	500°C (932°F)	15.7%
	955°C (1750°F)	15.4%
Grain Size–mm (in)	5 (0.20)	
Maximum Use Temperature	1370°C (2500°F)	

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

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Product Type: 106, 120, 124, 172, 183
Commodity Code: 02022