

Cast Iron Thermocouple Protection Tubes Datasheet

Benefits

- Excellent strength for cast house handling
- Suitable to withstand rigors of furnace environment
- Uniformity of life in use in the furnace
- Cost Effective assemblies go from the box to the furnace

Typical Applications

- High fire furnaces
- Charging of scrap and ingot
- Furnace de-drossing

Cast Iron TPT Standard Options

Lengths:

304mm (12") up to 2743mm (108") – in 152mm (6") increments

Diameters:

Outside Diameter – 43mm (1¹¹/₁₆" nominal)
Inside Diameter – 2.25mm (1/₁₀" nominal)
Threaded End Size: 3/4" NPT Female

Application

Aluminium and zinc melting furnaces, and other applications where mechanical strength is required.

Maximum Temperature

With black ceramic coating - 800 °C
No ceramic coating - 1148 °C

Coatings Available

Black ceramic coating (standard)
No ceramic coating

Protection Tube

One piece special alloyed casting

Preheating

Not required



Other threadings available upon request

The rugged design of ceramic-coated cast iron makes it suitable for aluminium furnace applications where strength and durability are required to withstand the rigors of furnace environments.



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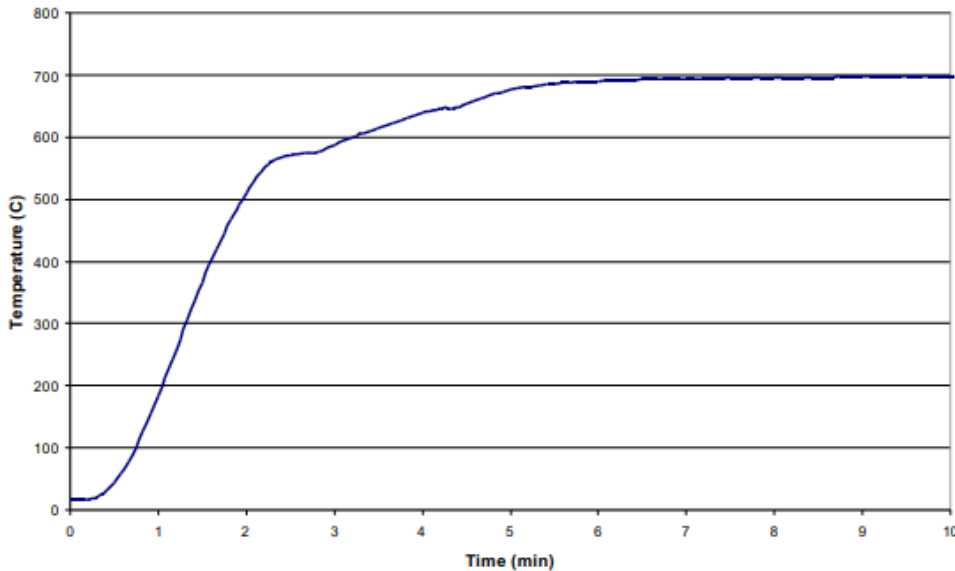
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Physical Properties (Typical)

Density	7.1 g/cm ³
Tensile Strength	207 Mpa
Thermal Conductivity	38-40 W/(m*K) @ 500 °C
Upper Use Temperature 1	800 °C for coating 1148 °C for uncoated casting
Dimensional	Length 15cm increments +0.32/-0.95cm Inner Diameter 2.25cm
Thread	¾" NPT Female (standard) – Other available
Enamel Coating	Consists mainly of Alumina, Silica and Borax

Initial Temperature Response Time - TPT in Aluminum at 700C



- Upper use temperature varies with application environment



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