

# MOLTEN METAL PROTECTION SHEATHS



## Thermo Guard Refractory Laminated Thermocouple Sheath

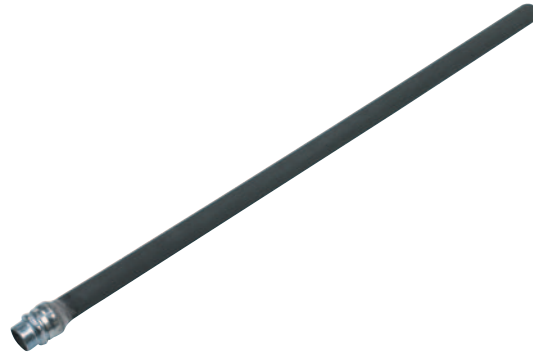
The refractory laminated thermo guard protection sheath offers the mechanical protection of metal tubes and the corrosion resistance of ceramics.

For molten aluminium or zinc applications, they resist erosion, will not contaminate metal melts and will outlast iron tubes many times over.

**Stocked lengths** are available in 12"; 18"; 21"; 24"; 30" & 36"

### Standard Features

Silicon Carbide Tip - for fast response  
3/4" NPT Process Connection



## Ucar Metal Ceramic

Grade LT-1 Ceramic Thermocouple Protection Tubes UCAR Metal Ceramic, is a slip-cast composite of two compatible high temperature materials, chromium & aluminium oxide. Products made from grade LT-1 material possess the following unique attributes.

- Superior oxidation resistance to 1371°C.
- Thermal conductivity comparable to that of stainless steel.
- Good resistance to wetting by most molten metals.

The high thermal conductivity and resultant excellent sensitivity to temperature changes accounts in part for its demand in the high temperature pyrometry field as a thermocouple protection tube.

### Typical Applications

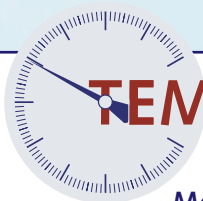
- Molten Copper Brass to 1149°C
- Steel Mill Soaking Pits to 1371°C
- Corrosive SO<sub>2</sub> and SO<sub>3</sub> gas (to 1371°C)
- Calcining Kilns to 1204°C
- Molten Zinc to 871°C
- Oil fired furnace chambers

Sizes: 12"; 18" 24" 36" lengths

7/8" Outer Diameter, 5/8" Inner Diameter

3/4" NPT connector fitted to 12", 18" & 24" units as standard

*For additional information and pricing.*



## TEMPERATURE CONTROLS PTY LTD

Sydney: 7 Yamma St Sefton NSW 2162 T (02) 9721 8644 F (02) 9738 9339

Melbourne: 8/280 Whitehall St Yarraville VIC 3013 T (03) 9687 0000 F (03) 9687 1900

W [www.temperature.com.au](http://www.temperature.com.au) E [sales@temperature.com.au](mailto:sales@temperature.com.au)

Due to ongoing product development, specification and price may change without notice.

Prices do not include GST