OMEGATITE® 650 is the ceramic sheath which is an alloy of silicon nitride and aluminum oxide. This superior refractory material has the combined properties of silicon nitride (high strength, hardness, fracture toughness, and low thermal expansion) and aluminum oxide (corrosion resistance, chemically inert, high temperature capabilities, and oxidation resistance). Not recommended for caustic solutions and hydrofluoric acid.

Most refractory products can be used only in high temperature applications where one or two of the following properties are required: thermal shock resistant, mechanical strength, corrosion resistance, abrasion resistance or electrical insulation. OMEGATITE 650 combines all these properties in one refractory material. Preheating of the process is not necessary.

OMEGATITE 650 is uniquely qualified for non-ferrous molten metal applications and high wear or high impact environments up to 1250°C (2282°F). OMEGATITE 650 is non-wetting for most non-ferrous metals. It is gas tight, chemically inert, resistant to corrosion and metal attack, and features high strength, hardness, and thermal shock resistance.

OMEGATITE 650 thermocouple sheaths are used extensively for continuous measurements in nonferrous metals. In molten aluminum, OMEGATITE 650 is thermally shock resistant, non-wetting, does not contaminate the melt, provides continuous, reliable temperature measurement, and is resistant to degradation even in aggressive aluminum lithium alloys.

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Thermocouple Calibration</th>
<th>Length mm (in)</th>
<th>Probe Dia. mm (in)</th>
<th>Price Per Add'l 150 mm (6&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEP-TX-K-PTRS-1628-475</td>
<td>$875</td>
<td>K</td>
<td>475 (18.75)</td>
<td>28 (1.10)</td>
<td>$125</td>
</tr>
<tr>
<td>NEP-TX-N-PTRS-1628-475</td>
<td>875</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Ceramic tube packaged separately to avoid breakage during shipping. Shipped unassembled.

To order in longer length, change “-475” to length in mm. For dual configuration, add suffix “-DUAL” to model number and $50 to price. Ordering Example: NEP-TX-K-PTRS-1628-625, Type K thermocouple with 625 mm (24.61”) long ceramic sheath for molten metal, $1000.
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**
  Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers, Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**