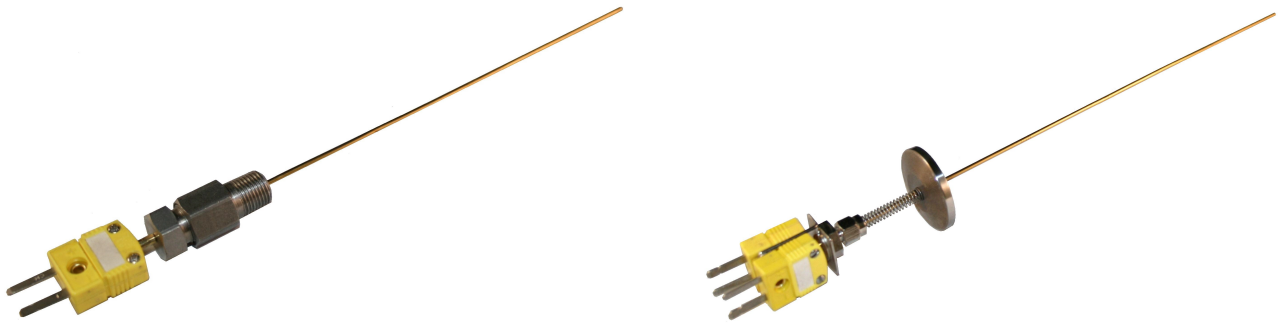


Vulcanite 1000 Series High Performance Thermocouples for Corrosive Chemical Vacuum Processes

The Vulcan Electric Vulcanite 10000 thermocouple construction provides the most advanced base metal thermocouple technology for chemical vapor deposition and other corrosive chemical vacuum processes. The Vulcanite 1000 thermocouple construction typically outperforms conventional thermocouple technologies by a factor of 2:1 when applied in environments such as vacuum deposition processes employed in the production of photovoltaics. The Vulcan Electric proprietary thermocouple design and technology provide superior thermocouple durability and performance. Higher throughput efficiency and significantly less down time translate into measurable cost savings. These versatile thermocouples are available in many standard and custom options including bendable sheaths and preformed configurations.



Typical Construction

Type K and Type N Thermocouple Calibration Options
316 Stainless Steel Sheath (other materials available)
TiN Coated (Titanium Nitride) over Sheath
Standard Size Termination Plugs
KF (QF) Vacuum Mounting Flanges
Customized Sensing Tube Configurations

Features

Excellent Corrosion Resistant Properties
Excellent Wear Resistance
Maximum Service Temperature of 525 C (atmosphere)
Maximum Service Temperature of 600 C (vacuum)
Bendable Tube MgO Insulated Probes
Adjustable High Pressure Vacuum Fittings

Benefits

Significantly Less Downtime Translate into Savings
Outperforms Conventional Temperature Sensor Designs
Durable, Extremely Hard Surface Finish
Superior Durability Under Extreme Conditions
Outstanding Temperature Sensitivity and Performance
Multiple Integrated Connection Options

Application Examples

Chemical Vapor Deposition
Chemical Etch Processes
Critical Application Heat Exchangers
CIGS Vapor Deposition
Corrosive Acid Chambers
Corrosive Desalination Plants

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