Vulcanite 2000 Series High Performance Thermocouples for Glass and Silicon Process Technologies

Vulcan Electric's Vulcanite 2000 Series Thermocouple line features high performance alumina oxide (99.8% Al₂O₃) components designed for use in glass and silicon ingot manufacturing. The enhanced protection tube system is comprised of a proprietary ceramic formulation that produces an extremely chemical resistant thermocouple able to withstand the very high temperatures found within aggressive environments present in Heat Exchanger Method (HEM) multi-crystalline silicon ingot processes and other similar critical process applications. The Vulcanite 2000 series thermocouples are currently employed successfully by global glass and silicon producers. These innovative thermocouples provide superior thermocouple performance and extended operating life cycles which translates into substantial cost savings.





Typical Construction

Thermocouple Platinum Types R, S, or B

Standard Protection Tube Diameters 1/4", 3/8", 1/2"., 3/4" & 1"

U.S. or Metric Process Connections

Alumina Oxide (99.8% Al₂O₃) Components

KF (QF) Vacuum Mounting Flanges

Customized Sensing Tube Configurations

Features

Excellent Resistance to Graphite Environments

Innovative Double Seal Cold End Designs

Multi-Point Sensing Element Options

Maximum Service Temperature of 1700 Degrees C

Enhanced Protection Tube System

Excellent Wear Resistance at Very High Temperatures

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

Excellent Chemical Resistance

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Application Examples

Multi-Crystalline Slicon Cell Manufacturing

Molten Glass Tanks

Heat Exchanger Method (HEM)

High Temperaure Diffusing Furnaces

Gasification Systems

Metal Treating Furnaces

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