



We create chemistry

Abrasion-resistant Thermocouples

For the cement industry

BASF's Abrasion-resistant Thermocouples for the cement industry have been proven to last as much as 10-times longer than typical thermocouples. This thermocouple is used in the pre-calcination stage prior to entering the cement kiln.

Temperature management is critical in cement manufacturing to ensure process control and product consistency. However, the abrasive environment in the final stage prior to entering the cement kiln can cause the thermocouple to wear out in a few weeks.

We leveraged our years of experience in thermocouple design and manufacturing to develop an abrasion-resistant thermocouple suitable for the cement industry. Along with the abrasion-resistant thermocouples, including Type R thermocouples, for the calcining industry.

Features & Benefits

- Abrasion-resistant
- Can last 10X longer
- Less Maintenance
- Type K
- Operating range up to 2300 F
- Proprietary thermowell

In our state-of-the-art production facilities in Fremont, California and Rome, Italy, we take extraordinary care to ensure that every instrument is manufactured with the highest degree of quality. Instruments are tested and calibrated against exacting standards, before they leave our ISO 9001:2008 certified factory. BASF is committed to providing innovative designs, exceptional quality, rapid deliveries and competitive pricing.



ISO-17025 for Superior Calibration

BASF has received ISO-17025 certification for thermocouple production at the Fremont, California site. The accreditation certifies the capability of performing thermocouple calibration between 0 and 1500 °C for thermocouples. This enables the highest certification for customers in many industries, including cement production.

Technical Assistance

Our laboratories are very amenable to exchanges and cooperation with our customers. We can perform specific calibrations at both fixed points or by comparison versus standards, with an accuracy of better than 0.2 °C. By offering superior technical assistance, BASF can deliver a positive impact on the overall cost of ownership of process tools.

About us

For more than 60 years, BASF has supplied a wide range of industries, including semiconductor, glass, solar cell, chemical, crystal growth, heat treating, laser welding, gas turbine, bio-medical, concrete and others with exceptionally high-quality temperature-sensor products and temperature-sensor calibration services to meet the demanding applications of our customers.

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