

# Thermocouples

## For the semiconductor industry

**BASF has long been a leading supplier of profile, spike and epitaxial thermocouples to the semiconductor industry. We offer profile and spike thermocouples for furnaces including Tel, Kokusai, ASML, ASM, and others. BASF precious metal thermocouples utilize R, S, B, PII, and K-type wires. Platinel® thermocouple wire is a proprietary precious metal combination developed by BASF.**

### Custom engineering

BASF engineers will work directly with you to customize your traditional and multi-junction thermocouples for enhanced longevity. Proven products and proven performance are the result of the dedicated, professional people that produce and service your products.

### Superior quality & calibration

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 ISO9001:2000 certified factory. Every thermocouple is supplied with a calibration report traceable to national standards and criteria.



### Technical assistance

The BASF team of highly trained engineers offers technical assistance to address temperature measurement problems and provide guidance on a cost-effective route to a solution.

We can perform specific calibrations at both fixed points or by comparison versus standards, with an accuracy of better than 0.2 °C. We can make metallographic and physical investigations of thermocouples which may allow customers to better understand the reasons of a failure or unexpected measurement drifts.

We also provide tailor-made evaluation studies on drift analyses. This can help customers assess the accuracy of installed thermocouples, their drift in time, and preventive maintenance pro-gram adjustments. By offering superior technical assistance, BASF can deliver a positive impact on the overall cost of ownership of process tools.

BASF is committed to providing innovative designs, exceptional quality, rapid deliveries and competitive pricing. Contact a technical specialist today for recommendations about your unique needs, including made-to-order, custom-designed thermocouple assemblies – our specialty.

## Precious metals expertise

Metals – particularly those in the Platinum group – are critical components of many products made by BASF such as contact thermocouples. Ensuring that those raw materials are where they need to be, when they need to be there, in the form they need to be and at the lowest possible cost is what BASF's Precious and Base Metal Services group is all about. Given our unique understanding of market fundamentals, such as current and future supply, technology changes and market risks, we help ensure that BASF and our customers have a cost-effective, reliable supply of the raw materials they need.

A fundamental understanding of precious metal and precious metal technologies is also critical. The experience of our research and development group in precious metal and precious metal technologies is unmatched. We have led the industry with breakthrough innovations. No one knows more about precious metals. We are the precious metal experts.

## Precious metal recovery

Our scrap metal return program can save you money on future orders. We can often use the refined precious metals coming from customer-supplied scrap material to manufacture new thermocouples.

## About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

**BASF - We create chemistry**

[www.catalysts.basf.com/tempensing](http://www.catalysts.basf.com/tempensing)

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