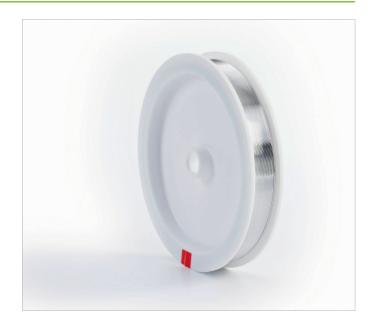


Thermocouple Wires

Heraeus manufactures high temperature thermocouple wires from physically pure Platinum and Rhodium. The purity of the metals helps achieve the most accurate measurement results possible for this type of technology. Special melting processes and production techniques guarantee the high purities through to the final product. The material properties due to the purity of the Platinum and Rhodium provide a product that has excellent long-term stability throughout the temperature range and in corrosive media. Strict control of the diameter tolerances also contributes to the results.

High Temperature Applications

Glass and Ceramics
Metal processing
Energy supply
Transportation and Conveyance
Chemical and petrochemical



Available Products

Type S - Pt / PtRh10

The most commonly used precious metal thermocouple wire combination. Known for its high degree of accuracy over the specified temperature range.

Type R - Pt / PtRh13

Similar to Type S, but with slightly higher initial thermoelectric values.

Type B – PtRh6 / PtRh30

In contrast to the other combination, Type B displays lower deviations and material losses when used at higher temperatures.

Tolerance Class & Calibration Services

Tolerance classes of thermocouple wire according to EN 60584 (temperature of the point of comparison = 0 °C)

Classes	1	2
Limiting Deviation (in each case higher value is applicable)	1.0°C (from 0 -1100°C) 1.0°C + ((T-1100) x 0.003°C) (from 1100 -1600°C)	1.5°C or (0.0025 x T) °C
Type R & S	0°C to ± 1600°C	0°C to ± 1600°C
Type B	-	+600°C to ± 1700°C

Every shipment comes with a standard calibration report, upon request Heraeus can provide a customer specific calibration report.

Contact

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The information in this data sheet contains only general information on the use of our products or examples for their application. They do not release the customer from a careful inspection of the delivered product for its fitness for the customer's particular purpose of use. Any customer's special requests regarding the particular use of a product will only be authoritative if Heraeus has confirmed to the customer in writing at the time of conclusion of a corresponding contract that the product delivered is fit for the customer's intended use. Heraeus, therefore, does not guarantee the correctness and completeness of the information regarding the customer's intended use. The customer's purchase will be governed exclusively by the written order confirmation of Heraeus and the Heraeus General Terms of Sale and Delivery, which are available at www.heraeus.com/gtc. This data sheet may be subject to changes at any time.

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