

### 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
<b>Limiting Deviation</b> (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
<b>Type R &amp; S</b>	0 °C to ± 1600 °C	0 °C to ± 1600 °C
<b>Type B</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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