

Goodfellow Platinum 90/Rhodium 10 Thermocouple Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Platinum Alloy

Material Notes:

The positive element of the type S thermocouple. Type S thermocouples are characterized by a high degree of chemical inertness and stability at high temperatures. Often used as a standard for calibration of base metal thermocouples. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Platinum-90Rhodium-10-Thermocouple-Alloy.php

Physical Properties	Metric	English	Comments
Density	19.97 g/cc	0.7215 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	90 - 165	90 - 165	
Tensile Strength at Break	320 - 620 MPa	46400 - 89900 psi	
Elongation at Break	<= 35 %	<= 35 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	38.0 W/m-K	264 BTU-in/hr-ft ² -°F	
Melting Point	1830 - 1855 °C	3330 - 3371 °F	
Solidus	1830 °C	3330 °F	
Liquidus	1855 °C	3371 °F	

Component Elements Properties	Metric	English	Comments
Platinum, Pt	90 %	90 %	
Rhodium, Rh	10 %	10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000184 - 0.0000192 ohm-cm	0.0000184 - 0.0000192 ohm-cm	Temperature Coefficient of 0.0017/K

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