

Goodfellow Platinum 87/Rhodium 13 Thermocouple Alloy

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

Material Notes:

The positive element of the type R thermocouple. Type R thermocouples are used when chemical inertness and stability at high temperatures, up to 1750C, are required. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Platinum-87Rhodium-13Thermocouple-Alloy.php

Physical Properties	Metric	English	Comments
Density	19.64 g/cc	0.7095 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	330 - 580 MPa	47900 - 84100 psi	
Elongation at Break	<= 32 %	<= 32 %	

Thermal Properties	Metric	English	Comments
Melting Point	1840 - 1865 °C	3340 - 3389 °F	
Solidus	1840 °C	3340 °F	
Liquidus	1865 °C	3389 °F	

Component Elements Properties	Metric	English	Comments
Platinum, Pt	87 %	87 %	
Rhodium, Rh	13 %	13 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000190 ohm-cm	0.0000190 ohm-cm	Temperature Coefficient of 0.0016/K

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