

Goodfellow Platinum 90/Iridium 10 Alloy

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

Material Notes:

The alloy has been used in "non-standard" thermocouples, electrical contacts and for electrodes in medical research. The alloy is harder and mechanically stronger than Platinum. Information provided by Goodfellow.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	21.56 g/cc	0.7789 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	130 - 190	130 - 190	
Tensile Strength at Break	380 - 620 MPa	55100 - 89900 psi	
Elongation at Break	<= 25 %	<= 25 %	

Thermal Properties	Metric	English	Comments
CTE, linear	8.70 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	4.83 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 100 $^{\circ}\text{C}$	@Temperature 68.0 - 212 $^{\circ}\text{F}$	
Thermal Conductivity	31.0 W/m-K	215 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	1800 $^{\circ}\text{C}$	3270 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Iridium, Ir	10 %	10 %	
Platinum, Pt	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000250 ohm-cm	0.0000250 ohm-cm	Temperature Coefficient of 0.0013/K

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