

Goodfellow T1-Thermocouple Alloy

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Nickel Alloy

Material Notes:

The positive element of the type K thermocouple alloy the negative being T2. The thermocouple can be used up to 1250C in oxidizing atmospheres and is the probably the most common in use. It is also the positive element of the type E thermocouple with Constantan as the negative; the thermoelectric power of type E thermocouples is the highest amongst all standard couples Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-T1-Thermocouple-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.50 g/cc	0.307 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	620 - 780 MPa	89900 - 113000 psi	
Elongation at Break	<= 44 %	<= 44 %	
Modulus of Elasticity	186 GPa	27000 ksi	
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	17.2 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.56 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 1000 $^{\circ}\text{C}$	@Temperature 68.0 - 1830 $^{\circ}\text{F}$	
Thermal Conductivity	19.0 W/m-K	132 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	1420 $^{\circ}\text{C}$	2590 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	1100 $^{\circ}\text{C}$	2010 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Chromium, Cr	10 %	10 %	
Nickel, Ni	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000706 ohm-cm	0.0000706 ohm-cm	Temperature Coefficient of 0.00032/K

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