

Goodfellow T2-Thermocouple Alloy

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

Material Notes:

The negative element of the type K thermocouple, the positive being T1. The thermocouple can be used up to 1250C in oxidizing atmospheres, and probably is the most common in use. Information provided by Goodfellow. Composition Notes: Al + Mn + Si content 5 wt%.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-T2-Thermocouple-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.50 - 8.70 g/cc	0.307 - 0.314 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	550 - 780 MPa	79800 - 113000 psi	
Elongation at Break	<= 44 %	<= 44 %	
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	16.8 µm/m-°C	9.33 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	30.0 - 32.0 W/m-K	208 - 222 BTU-in/hr-ft ² -°F	
Melting Point	1315 - 1390 °C	2399 - 2530 °F	
Solidus	1315 °C	2399 °F	
Liquidus	1390 °C	2530 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	

Component Elements Properties	Metric	English	Comments
Nickel, Ni	95 %	95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000290 - 0.0000330 ohm-cm	0.0000290 - 0.0000330 ohm-cm	Temperature Coefficient of 0.0019/K

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