

Goodfellow Aluchrom O® Resistance Alloy

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal , Superalloy , Iron Base

Material Notes:

Resistance heating alloy with excellent resistance to oxidation at elevated temperatures. Used in many varied applications - from small household appliances to large industrial furnaces. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Aluchrom-O-Resistance-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.10 g/cc	0.257 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	650 - 1000 MPa	94300 - 145000 psi	
Elongation at Break	15 %	15 %	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C @Temperature 20.0 - 100 °C	6.11 µin/in-°F @Temperature 68.0 - 212 °F	
Thermal Conductivity	16.0 W/m-K	111 BTU-in/hr-ft ² -°F	
Melting Point	1520 °C	2770 °F	
Maximum Service Temperature, Air	1250 °C	2280 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.0 %	5.0 %	
Chromium, Cr	25 %	25 %	
Iron, Fe	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000135 - 0.000145 ohm-cm	0.000135 - 0.000145 ohm-cm	Temperature Coefficient of 0.00007 K ⁻¹
Curie Temperature	600 °C	1110 °F	

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