

Goodfellow TZM Molybdenum High Temperature Alloy

Category : Metal , Nonferrous Metal , Molybdenum Alloy

Material Notes:

Increased high temperature strength over pure molybdenum although, like Molybdenum, it oxidizes rapidly in oxidizing atmospheres above 500°C. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-TZM-Molybdenum-High-Temperature-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.22 g/cc	0.3692 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	560 - 1150 MPa	81200 - 167000 psi	
Elongation at Break	<= 20 %	<= 20 %	
Tensile Modulus	320 GPa	46400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 µm/m-°C	2.94 µin/in-°F	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	126 W/m-K	874 BTU-in/hr-ft ² -°F	
Melting Point	2500 - 2600 °C	4530 - 4710 °F	
Solidus	2500 °C	4530 °F	
Liquidus	2600 °C	4710 °F	
Maximum Service Temperature, Air	400 °C	752 °F	

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	99 %	99 %	
Titanium, Ti	0.50 %	0.50 %	
Zirconium, Zr	0.10 %	0.10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000530 - 0.00000550 ohm-cm	0.00000530 - 0.00000550 ohm-cm	

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