

Plansee MY Molybdenum-Yttrium-Cerium Oxide

Category : Metal , Nonferrous Metal , Molybdenum Alloy , Refractory Metal

Material Notes:

Characteristics: Greater resistance to oxidation than pure Mo Adheres well to quartz glass Easily weldable Applications: Conductive ESS ribbons Coating technology - evaporation boats Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-MY-Molybdenum-Yttrium-Cerium-Oxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	10.2 g/cc	10.2 g/cc	Calculated

Thermal Properties	Metric	English	Comments
Thermal Conductivity	142 W/m-K	985 BTU-in/hr-ft ² -°F	comparable with pure Mo

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	99.45 %	99.45 %	Balance
Other, each	0.080 %	0.080 %	Cerium Oxide
Y2O3	0.47 %	0.47 %	

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1100 °C	2010 °F	Deformation level - 90%
	1350 °C	2460 °F	Deformation level - 99.99%

Descriptive Properties	Value	Comments
Creep Resistance	greater than pure Mo	
Ductility	greater than pure Mo	
Stability at High Temperature	greater than pure Mo	
Stability at Room Temperature	comparable with pure Mo	
Weldability	greater than pure Mo	

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