

Plansee ML Molybdenum-Lanthanum Oxide

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

Material Notes:

Characteristics:"Stacked fiber" microstructureExtremely creep resistantApplications:Furnace components - wires, including stranded; sintering and annealing boats; evaporator coilsLighting - retaining and feed wiresInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-ML-Molybdenum-Lanthanum-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
Maximum Service Temperature, Air	2000 °C	3630 °F	Microstructure stable up to this point

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	99.7 %	99.7 %	Balance
Other, each	0.30 %	0.30 %	Lanthanum Oxide

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1300 °C	2370 °F	Deformation level - 90%
	2000 °C	3630 °F	Deformation level - 99.99%

Descriptive Properties	Value	Comments
Creep Resistance	< 1400°C	much greater than pure Mo
Ductility	much greater than pure Mo	after HT use
Stability at High Temperature	> 1400°C	greater than pure Mo
Stability at Room Temperature	comparable with pure Mo	
Weldability	greater than pure Mo	

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