

## Plansee MLR Molybdenum-Lanthanum Oxide; Recrystallized

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

**Material Notes:**

Characteristics:"Stacked fiber" microstructure  
 Extremely creep resistant  
 Applications:Furnace components - wires, including stranded; sintering and annealing boats; evaporator coils  
 Lighting - retaining and feed wires  
 Information provided by Plansee.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plansee-MLR-Molybdenum-Lanthanum-Oxide-Recrystallized.php](http://www.lookpolymers.com/polymer_Plansee-MLR-Molybdenum-Lanthanum-Oxide-Recrystallized.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 <sup>2</sup> -°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	99.3 %	99.3 %	Balance
Other, each	0.70 %	0.70 %	Lanthanum Oxide

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

## Contact Songhan Plastic Technology Co.,Ltd.

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