

Plansee WL10 Lanthanum Oxide-doped Tungsten

Category : Metal , Nonferrous Metal , Refractory Metal , Tungsten Alloy

Material Notes:

Tungsten alloy suitable for use as ion sources, lamp electrodes and welding electrodes. Characteristics (compared to pure tungsten): Improved creep resistance Higher recrystallization temperature Machines more easily Lower electron work function Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-WL10-Lanthanum-Oxide-doped-Tungsten.php

Physical Properties	Metric	English	Comments
Specific Gravity	19.2 g/cc	19.2 g/cc	Calculated

Thermal Properties	Metric	English	Comments
Thermal Conductivity	164 W/m-K	1140 BTU-in/hr-ft ² -°F	comparable to pure W

Component Elements Properties	Metric	English	Comments
Other, each	1.0 %	1.0 %	Lanthanum Oxide

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1500 °C	2730 °F	Deformation level - 90%
	2500 °C	4530 °F	Deformation level - 99.99%

Descriptive Properties	Value	Comments
Creep Resistance	greater than pure W	
Ductility	greater than pure W	
Fineness of Grain	greater than pure W	
Machinability/Workability	much greater than pure W	
Stability at High Temperature	greater than pure W	

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