

## Plansee WL15 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 resistanceHigher recrystallization temperatureMachines more easilyLower electron work functionInformation provided by Plansee.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plansee-WL15-Lanthanum-Oxide-doped-Tungsten.php](http://www.lookpolymers.com/polymer_Plansee-WL15-Lanthanum-Oxide-doped-Tungsten.php)

Physical Properties	Metric	English	Comments
Specific Gravity	19.1 g/cc	19.1 g/cc	Calculated

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

Component Elements Properties	Metric	English	Comments
Other, each	1.5 %	1.5 %	Lanthanum Oxide

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1550 °C	2820 °F	Deformation level - 90%
	2600 °C	4710 °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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