

Plansee WLZ Lanthanum Oxide and Zirconium Oxide-doped Tungsten

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

Material Notes:

A non-radioactive Tungsten alloy suitable for the manufacture of cathodes used in high-load environments.Characteristics:High creep resistanceGood stability at extremely high temperaturesGood ignition propertiesLow electron work functionInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-WLZ-Lanthanum-Oxide-and-Zirconium-Oxide-doped-Tungsten.php

Physical Properties	Metric	English	Comments
Specific Gravity	18.9 g/cc	18.9 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	2.5 %	2.5 %	Lanthanum Oxide
ZrO ₂	0.070 %	0.070 %	

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

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