

Plansee W-NS Potassium-doped Tungsten

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

Material Notes:

Doping tungsten with 60 to 65 ppm potassium produces an elongated stacked microstructure, yielding useful characteristics in wire products. Characteristics: Good creep resistance Good high temperature dimensional stability Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-W-NS-Potassium-doped-Tungsten.php

Physical Properties	Metric	English	Comments
Specific Gravity	19.3 g/cc	19.3 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
Potassium, K	0.0060 - 0.0065 %	0.0060 - 0.0065 %	

Descriptive Properties	Value	Comments
Creep Resistance	much greater than pure W	
Ductility	greater than pure W	
Electron Work Function	4.54 eV	
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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