

Plansee WVMW Aluminum-potassium Silicate-doped tungsten

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

Material Notes:

Typical Application: anode materials - rod with diameter greater than 15 mm, for short-arc lamps
Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-WVMW-Aluminum-potassium-Silicate-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	0.0015 - 0.0040 %	0.0015 - 0.0040 %	

Descriptive Properties	Value	Comments
Creep Resistance	greater than pure W	
Ductility	much 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	greater than pure W	

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