

Plansee WRe26 Tungsten-Rhenium Alloy

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

Material Notes:

Characteristics, as compared to pure tungsten: Greater ductility Lower brittle-to-ductile transition temperature Higher recrystallization temperature Greater creep resistance Applications: Thermoelements operating over 2000°C Aviation and Aerospace industries Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-WRe26-Tungsten-Rhenium-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	19.7 g/cc	19.7 g/cc	Calculated

Component Elements Properties	Metric	English	Comments
Rhenium, Re	26 %	26 %	

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1750 °C	3180 °F	Deformation level - 90%

Descriptive Properties	Value	Comments
Creep Resistance	greater than pure W	
Ductility	much greater than pure W	
Fineness of Grain	comparable to pure W	
Machinability/Workability	greater than pure W	
Stability at High Temperature	greater than pure W	
Thermal Conductivity	less than pure W (164 W/m-K)	

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