

## Plansee WRe5 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-WRe5-Tungsten-Rhenium-Alloy.php](http://www.lookpolymers.com/polymer_Plansee-WRe5-Tungsten-Rhenium-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	19.4 g/cc	19.4 g/cc	Calculated

Component Elements Properties	Metric	English	Comments
Rhenium, Re	5.0 %	5.0 %	

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1700 °C	3090 °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)	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China