

Plansee WC20 Cerium Oxide-doped Tungsten

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

Material Notes:

Non-radioactive material for welding electrodes
 Characteristics (compared to pure tungsten): Lower electron work function
 Improved ignition characteristics
 Longer service life
 Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-WC20-Cerium-Oxide-doped-Tungsten.php

Physical Properties	Metric	English	Comments
Specific Gravity	19.0 g/cc	19.0 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	2.0 %	2.0 %	Cerium Oxide

Processing Properties	Metric	English	Comments
Recrystallization Temperature	1560 °C	2840 °F	Deformation level - 90%
	2600 °C	4710 °F	Deformation level - 99.99%

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

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