

CMW® 3950 AMS-T-21014 ASTM B777 High Density Machinable Tungsten

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

Material Notes:

Uses: Radiation Shielding, High Mass, Gyro, Ordnance. Machinability is similar to gray iron. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-3950-AMS-T-21014-ASTM-B777-High-Density-Machinable-Tungsten.php

Physical Properties	Metric	English	Comments
Density	18.0 g/cc	0.650 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	63 @Temperature 600 °C	63 @Temperature 1110 °F	40 HRA
Hardness, Rockwell C	28	28	
Tensile Strength, Ultimate	896 MPa	130000 psi	
Tensile Strength, Yield	621 MPa	90100 psi	
Elongation at Break	15 %	15 %	
Modulus of Elasticity	365 GPa	52900 ksi	
Flexural Modulus	2.00 GPa	290 ksi	
Compressive Yield Strength	621 MPa	90100 psi	
Fatigue Strength	465 MPa	67400 psi	High cycle unnotched
Charpy Impact	4.70 J	3.47 ft-lb	Notched
Charpy Impact, Unnotched	54.2 J	40.0 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	4.60 µm/m-°C	2.56 µin/in-°F	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
	5.80 µm/m-°C	3.22 µin/in-°F	
	@Temperature 20.0 - 800 °C	@Temperature 68.0 - 1470 °F	
Thermal Conductivity	110 W/m-K	763 BTU-in/hr-ft ² -°F	
Melting Point	1425 - 3410 °C	2597 - 6170 °F	

Thermal Properties	Metric	English	Comments
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Iron, Fe	1.5 %	1.5 %	
Nickel, Ni	3.5 %	3.5 %	
Tungsten, W	95 %	95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000133 ohm-cm	0.0000133 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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