

CMW® 2000 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-2000-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	65 @Temperature 600 °C	65 @Temperature 1110 °F	49 HRA
Hardness, Rockwell C	27	27	
Tensile Strength, Ultimate	758 MPa	110000 psi	
Tensile Strength, Yield	586 MPa	85000 psi	
Elongation at Break	5.0 %	5.0 %	
Modulus of Elasticity	310 GPa	45000 ksi	
Flexural Modulus	1.52 GPa	220 ksi	
Compressive Yield Strength	634 MPa	92000 psi	
Fatigue Strength	296 MPa	42900 psi	High cycle notched
Charpy Impact	6.10 J	4.50 ft-lb	Notched
Charpy Impact, Unnotched	12.2 J	9.00 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	4.43 µm/m-°C	2.46 µin/in-°F	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
	5.05 µm/m-°C	2.81 µin/in-°F	
	@Temperature 20.0 - 800 °C	@Temperature 68.0 - 1470 °F	
Thermal Conductivity	137 W/m-K	951 BTU-in/hr-ft ² -°F	
Melting Point	1200 - 3410 °C	2190 - 6170 °F	

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

Component Elements Properties	Metric	English	Comments
Copper, Cu	1.5 %	1.5 %	
Nickel, Ni	3.5 %	3.5 %	
Tungsten, W	95 %	95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001724 ohm-cm	0.00001724 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