

CMW® 1000 AMS-T-21014 AMS-7725 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-1000-AMS-T-21014-AMS-7725-ASTM-B777-High-Density-Machinable-Tungsten.php

Physical Properties	Metric	English	Comments
Density	16.96 g/cc	0.6127 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	60 @Temperature 600 °C	60 @Temperature 1110 °F	39 HRA
Hardness, Rockwell C	24	24	
Tensile Strength, Ultimate	772 MPa	112000 psi	
Tensile Strength, Yield	517 MPa	75000 psi	
Elongation at Break	6.0 %	6.0 %	
Modulus of Elasticity	280 GPa	40600 ksi	
Flexural Modulus	1.52 GPa	220 ksi	
Compressive Yield Strength	683 MPa	99100 psi	
Fatigue Strength	276 MPa	40000 psi	High cycle unnotched
Charpy Impact	6.10 J	4.50 ft-lb	Notched
Charpy Impact, Unnotched	14.9 J	11.0 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 µm/m-°C	3.00 µin/in-°F	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
	6.35 µm/m-°C	3.53 µin/in-°F	
	@Temperature 20.0 - 800 °C	@Temperature 68.0 - 1470 °F	
Thermal Conductivity	94.1 W/m-K	653 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	Comments
Solidus	1200 °C	2190 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	4.0 %	4.0 %	
Nickel, Ni	6.0 %	6.0 %	
Tungsten, W	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000123 ohm-cm	0.0000123 ohm-cm	(14% IACS)

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