

CMW® 3000 AMS-T-21014 AMS-7725 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-3000-AMS-T-21014-AMS-7725-High-Density-Machinable-Tungsten.php

Physical Properties	Metric	English	Comments
Density	17.24 g/cc	0.6228 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell A	63 @Temperature 600 °C	63 @Temperature 1110 °F	32 HRA
Hardness, Rockwell C	25	25	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	607 MPa	88000 psi	
Elongation at Break	18 %	18 %	
Modulus of Elasticity	352 GPa	51100 ksi	
Flexural Modulus	1.93 GPa	280 ksi	
Compressive Yield Strength	603 MPa	87500 psi	
Fatigue Strength	427 MPa	61900 psi	High cycle unnotched
Charpy Impact	9.50 J	7.01 ft-lb	Notched
Charpy Impact, Unnotched	203 J	150 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	4.61 µm/m-°C	2.56 µin/in-°F	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
	5.36 µm/m-°C	2.98 µin/in-°F	
	@Temperature 20.0 - 800 °C	@Temperature 68.0 - 1470 °F	
Thermal Conductivity	75.7 W/m-K	525 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
Copper, Cu	3.0 %	3.0 %	
Nickel, Ni	7.0 %	7.0 %	
Tungsten, W	90 %	90 %	

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

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