Hogen HM1250 Tungsten-Based Metal

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

Material Notes:

Slightly Magnetic.Manufactured by powder metallurgy methods. The tungsten base offers high thermal conductivity and a low CTE which combine to resist thermal fatigue. The high melting point reduces soldering or erosion problems. To increase the machinability of this brittle metal, alloying elements are added and practical use of tungsten is possible for die casting tools.Used in resistance brazing and high temp applications. Used as counter weights and counter balances, radiation shielding components, tool shanks for boring bars and other tools for chatter-free machining.Data provided by Hogen Industries.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hogen-HM1250-Tungsten-Based-Metal.php

Physical Properties	Metric	English	Comments
Density	17.7 g/cc	0.639 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	34	34	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	655 MPa @Strain 0.200 %	95000 psi @Strain 0.200 %	
Elongation at Break	4.0 %	4.0 %	in 50 mm
Modulus of Elasticity	365 GPa	52900 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 Âµm/m-Â°C @Temperature 20.0 - 400 Â°C	2.50 Âµin/in-Â°F @Temperature 68.0 - 752 Â°F	
Thermal Conductivity	113 W/m-K	784 BTU-in/hr-ftÂ²-Â°F	

Component Elements Properties	Metric	English	Comments
Ni, Fe, Mo	7.0 %	7.0 %	
Tungsten, W	93 %	93 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000120 ohm-cm	0.0000120 ohm-cm	

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