

Plansee DENSIMET® D2M Tungsten-Nickel-Molybdenum-Iron Alloy

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

Material Notes:

Characteristics: Easy processing High density Precision forming and machining High ductility High strength 100 % impermeable Typical

Applications: Balancing weights in motors and drive components Vibration dampers in motors and drive components Collimator and shielding components for X-ray and gamma radiation protection Aviation and aerospace: propeller and helicopter blades Sports equipment: golf clubs Optical industry: microscopes and measuring instruments Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-DENSIMET-D2M-Tungsten-Nickel-Molybdenum-Iron-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	17.2 g/cc	17.2 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	34	34	
Tensile Strength	990 MPa	144000 psi	
Tensile Strength, Yield	700 MPa	102000 psi	
Elongation at Break	18 %	18 %	
Modulus of Elasticity	360 GPa	52200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.94 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	65.0 W/m-K @Temperature 500 °C	451 BTU-in/hr-ft ² -°F @Temperature 932 °F	
Maximum Service Temperature, Air	600 °C	1110 °F	Oxidation Resistance

Component Elements Properties	Metric	English	Comments
Ni, Fe, Mo	10 %	10 %	
Tungsten, W	90 %	90 %	

Descriptive Properties	Value	Comments
Ductility	much greater than pure W	
Fineness of Grain	greater than pure W	

Machinability/Workability
Descriptive Properties

much greater than pure W
Value

Comments

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