

Plansee DENSIMET® D185 Tungsten-Nickel-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-D185-Tungsten-Nickel-Iron-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	18.5 g/cc	18.5 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	34	34	
Tensile Strength	800 MPa	116000 psi	
Tensile Strength, Yield	600 MPa	87000 psi	
Elongation at Break	10 %	10 %	
Modulus of Elasticity	385 GPa	55800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.78 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	90.0 W/m-K @Temperature 500 °C	625 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
Fe + Ni	3.0 %	3.0 %	
Tungsten, W	97 %	97 %	

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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