

Plansee DENAL® 920 159 20 Tungsten-Nickel-Iron-Cobalt Alloy

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

Material Notes:

Characteristics:exceptionally stronghigh densityoutstanding mechanical damping capabilitiesHigh absorption of X-ray and gamma radiationInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-DENAL-920-159-20-Tungsten-Nickel-Iron-Cobalt-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	17.6 g/cc	17.6 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength	1400 - 1460 MPa	203000 - 212000 psi	
Tensile Strength, Yield	1400 - 1460 MPa	203000 - 212000 psi	
Elongation at Break	8.0 - 11 %	8.0 - 11 %	
Charpy Impact, Notched	100 - 150 J/cm ²	476 - 714 ft-lb/in ²	

Component Elements Properties	Metric	English	Comments
Other, total	2.5 - 10 %	2.5 - 10 %	Ni + Fe + Co
Tungsten, W	90 - 97.5 %	90 - 97.5 %	

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

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