Special Metals UDIMETÂ® Alloy 250 Maraging Steel

Category : Metal , Ferrous Metal , Maraging Steel

Material Notes:

A high-strength, maraging steel of iron and nickel with additions of molybdenum and titanium. It has the strength of standard 18Ni (250) maraging steel but the advantages of containing less molybdenum and no cobalt. Used for missile cases, aircraft forgings, power-transmission shafts and couplings, springs, bolts, punches, and dies. Standard product forms are round, flats, forging stock, and wire.Data provided by the manufacturer, Special Metals.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Special-Metals-UDIMET-Alloy-250-Maraging-Steel.php

Physical Properties	Metric	English	Comments
Density	7.92 g/cc	0.286 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1830 MPa	265000 psi	Precipitation Hardened
Tensile Strength, Yield	1750 MPa @Strain 0.200 %	254000 psi @Strain 0.200 %	Precipitation Hardened
Elongation at Break	12 %	12 %	Precipitation Hardened

Thermal Properties	Metric	English	Comments
CTE, linear	10.04 Âµm/m-Â°C @Temperature 20.0 - 100 Â°C	5.578 Âµin/in-Â°F @Temperature 68.0 - 212 Â°F	
Thermal Conductivity	20.3 W/m-K	141 BTU-in/hr-ftÂ²-Â°F	
Melting Point	1435 - 1505 Â°C	2615 - 2741 Â°F	
Solidus	1435 Â°C	2615 Â°F	
Liquidus	1505 Â°C	2741 Â°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.050 - 0.15 %	0.050 - 0.15 %	
Carbon, C	<= 0.030 %	<= 0.030 %	
Iron, Fe	75 %	75 %	As remainder
Manganese, Mn	<= 0.10 %	<= 0.10 %	

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	2.75 - 3.25 %	2.75 - 3.25 %	
Nickel, Ni	18 - 22 %	18 - 22 %	
Phosphorous, P	<= 0.010 %	<= 0.010 %	
Silicon, Si	<= 0.10 %	<= 0.10 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	
Titanium, Ti	1.3 - 1.45 %	1.3 - 1.45 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000489 ohm-cm	0.0000489 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China