

ATI Allegheny Ludlum Altemp® 263 Nickel-Based alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Characteristics: high strength up to 1500°F, oxidation resistance up to 2000°F Information provided by Allegheny Ludlum

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Altemp-263-Nickel-Based-alloy.php

Physical Properties	Metric	English	Comments
Density	8.36 g/cc	0.302 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	Solution Annealed, 21°C
Hardness, Rockwell C	28	28	Age Hardened per AMS 5872D, 21°C
Tensile Strength, Ultimate	655 MPa	95000 psi	
	827 MPa	120000 psi	Solution Annealed
	1034 MPa	150000 psi	Age Hardened per AMS 5872D, 21°C
Tensile Strength, Yield	414 MPa	60000 psi	Solution Annealed
	552 MPa	80100 psi	
	621 MPa	90100 psi	Age Hardened per AMS 5872D, 21°C
Elongation at Break	17 %	17 %	Age Hardened per AMS 5872D, 779°C
	35 %	35 %	Age Hardened per AMS 5872D, 21°C
	50 %	50 %	Solution Annealed
Creep Strength	116 MPa @Temperature 779.4 °C, Time 180000 sec	16800 psi @Temperature 1435 °F, Time 50.0 hour	
Modulus of Elasticity	220 GPa	31900 ksi	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.30 - 0.60 %	0.30 - 0.60 %	
Carbon, C	0.040 - 0.080 %	0.040 - 0.080 %	
Chromium, Cr	19 - 21 %	19 - 21 %	

Component Elements Properties	Metric	English	Comments
Copper, Cu	<= 0.20 %	<= 0.20 %	
Iron, Fe	<= 0.70 %	<= 0.70 %	As Remainder
Manganese, Mn	<= 0.60 %	<= 0.60 %	
Molybdenum, Mo	5.6 - 6.1 %	5.6 - 6.1 %	
Nickel, Ni	>= 46.898 %	>= 46.898 %	
Phosphorous, P	<= 0.015 %	<= 0.015 %	
Silicon, Si	<= 0.40 %	<= 0.40 %	
Sulfur, S	<= 0.0070 %	<= 0.0070 %	
Titanium, Ti	1.9 - 2.4 %	1.9 - 2.4 %	

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