Crucible Compaction Metals P/M N625 Corrosion Resistant Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

P/M N625 (chemically, UNS N06625) is produced by the state-of-the-art Crucible P/M process: inert gas atomization, coupled with consolidation by hot isostatic pressing (HIP) and/or extrusion. The advanced Crucible powder consolidation operation guarantees a fully dense, fine grained product. Crucible custom crafted parts can be machined in less time and with less tool wear than those produced from conventional 625 material.P/M N625 gives engineers and designers great flexibility in design. It is available in standard mill forms and as billet, bar and tubing, near net shapes and clad components and hollows. The use of near net shapes can decrease the amount of material used and reduces the costs of fabricating a finished part.Advantages:Near net shape Excellent corrosion resistance Weldability Thermal stability Chemical homogeneity High strength MachinabilityInformation provided by Crucible Compaction Metals.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Crucible-Compaction-Metals-PM-N625-Corrosion-Resistant-Alloy.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	959 MPa @Temperature 23.0 °C	139000 psi @Temperature 73.4 °F	
Tensile Strength, Yield	455 MPa @Strain 0.200 %	66000 psi @Strain 0.200 %	As-Consolidated; At Room Temperature
Elongation at Break	50 % @Temperature 23.0 °C	50 % @Temperature 73.4 °F	
Reduction of Area	55 % @Temperature 23.0 °C	55 % @Temperature 73.4 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.40 %	<= 0.40 %	
Carbon, C	<= 0.10 %	<= 0.10 %	
Chromium, Cr	20 - 23 %	20 - 23 %	
Cobalt, Co	<= 0.10 %	<= 0.10 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	<= 5.0 %	<= 5.0 %	
Manganese, Mn	<= 0.50 %	<= 0.50 %	
Molybdenum, Mo	8.0 - 10 %	8.0 - 10 %	
Nickel, Ni	55.32 - 61.32 %	55.32 - 61.32 %	As Balance

Component Elements Properties	Metric	English	Comments
Phosphorous, P	<= 0.015 %	<= 0.015 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	
Titanium, Ti	<= 0.40 %	<= 0.40 %	

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