

Crucible Compaction Metals P/M N690 Corrosion Resistant Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

P/M N690 (chemically, UNS N06690) is produced by the state-of-the-art Crucible P/M process: inert gas atomization, coupled with consolidation by hot isostatic pressing 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 690 material. P/M N690 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: Excellent corrosion resistance High strength Weldability Machinability Chemical homogeneity Near net shape Thermal stability Information provided by Crucible Compaction Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Compaction-Metals-PM-N690-Corrosion-Resistant-Alloy.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	862 MPa	125000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	469 MPa	68000 psi	As-Consolidated; At Room Temperature
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	39 %	39 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Reduction of Area	60 %	60 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.040 %	<= 0.040 %	
Chromium, Cr	28 - 31 %	28 - 31 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	7.0 - 11 %	7.0 - 11 %	
Manganese, Mn	<= 0.50 %	<= 0.50 %	
Nickel, Ni	56.445 - 63.445 %	56.445 - 63.445 %	as balance
Silicon, Si	<= 0.50 %	<= 0.50 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	

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