

MetalTek Nitronic® 50 Cast UNS J93790 Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel , Cast Stainless Steel

Material Notes:

Corrosion resistance and high strength. Produced under license of ARMCO Advanced Materials Corp. Applications: Deck equipment, pumps, valves. Information provided by MetalTek

Order this product through the following link:

http://www.lookpolymers.com/polymer_MetalTek-Nitronic-50-Cast-UNS-J93790-Austenitic-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	179	179	
Tensile Strength, Ultimate	>= 585 MPa	>= 84800 psi	
Tensile Strength, Yield	>= 290 MPa	>= 42100 psi	
Elongation at Break	>= 30 %	>= 30 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.060 %	<= 0.060 %	
Chromium, Cr	20.5 - 23.5 %	20.5 - 23.5 %	
Iron, Fe	51.94 - 62.1 %	51.94 - 62.1 %	As Balance
Manganese, Mn	4.0 - 6.0 %	4.0 - 6.0 %	
Molybdenum, Mo	1.5 - 3.0 %	1.5 - 3.0 %	
Nickel, Ni	11.5 - 13.5 %	11.5 - 13.5 %	
Niobium, Nb (Columbium, Cb)	0.10 - 0.30 %	0.10 - 0.30 %	
Nitrogen, N	0.20 - 0.40 %	0.20 - 0.40 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Vanadium, V	0.10 - 0.30 %	0.10 - 0.30 %	

Descriptive Properties	Value	Comments
Heat Treatment	Sol. Anneal	

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