

MetalTek J92240 14-4 PH[®] Precipitation Hardening Steel

Category : Metal , Ferrous Metal , Stainless Steel , Cast Stainless Steel , Precipitation Hardening Stainless

Material Notes:

Produced under license of ARMCO Advanced Materials Corp. Information provided by MetalTek

Order this product through the following link:

http://www.lookpolymers.com/polymer_MetalTek-J92240-14-4-PH-Precipitation-Hardening-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	286	286	
Tensile Strength, Ultimate	>= 1030 MPa	>= 149000 psi	
Tensile Strength, Yield	>= 895 MPa	>= 130000 psi	
Elongation at Break	>= 10 %	>= 10 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.060 %	<= 0.060 %	
Chromium, Cr	13.5 - 14.25 %	13.5 - 14.25 %	
Copper, Cu	3.0 - 3.5 %	3.0 - 3.5 %	
Iron, Fe	72.79 - 77.1 %	72.79 - 77.1 %	As Balance
Manganese, Mn	<= 0.70 %	<= 0.70 %	
Molybdenum, Mo	2.0 - 2.5 %	2.0 - 2.5 %	
Nickel, Ni	3.75 - 4.75 %	3.75 - 4.75 %	
Niobium, Nb (Columbium, Cb)	0.15 - 0.35 %	0.15 - 0.35 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Silicon, Si	0.50 - 1.0 %	0.50 - 1.0 %	
Tantalum, Ta	<= 0.050 %	<= 0.050 %	

Descriptive Properties	Value	Comments
Heat Treatment	Homog, Solution, Age	

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