

Material: UNS N07090

Standard Specification for Seamless Nickel-Chromium-Cobalt base Alloy Tube, Forging Stock, Hexagon and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N07090 Seamless Nickel-Chromium-Cobalt base Alloy Tube, Forging Stock, Hexagon and Wire

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Tube, Forging Stock, Hexagon and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 max.	As-Cast or Annealing or Age Hardening	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	18.000 - 21.000		
Sulphur	S %	0.015 max.		
Aluminium	Al %	1.000 - 2.000		
Boron	B %	0.020 max.		
Cobalt	Co %	15.000 - 21.000		
Copper	Cu %	0.200 max.		
Lead	Pb %	0.002 max.		
Titanium	Ti %	2.000 - 3.000	Mechanical Properties	
Iron	Fe %	1.500 max.	Tensile Strength in Mpa	1175 - 1265
Zirconium	Zr %	0.150 max.	Yield Strength in Mpa	752 - 831
Iron	Fe %	1.500 max.	Elongation in %	23 - 33
Nickel	Ni %	Balance	Reduction of Area in %	41 - 47
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Nimonic Alloy 90	ASTM	USA	Tube, Forging Stock, Hexagon and Wire
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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