

Material: BS HR4

Standard Specification for Nickel-Chromium-Cobalt-Aluminium-Molybdenum-Titanium Heat-Resisting Alloy Billets, Bars and Forging Parts

Group: Non-Ferrous Nickel Alloys

Sub Group: BS HR4 Nickel-Chromium-Cobalt-Aluminium-Molybdenum-Titanium Heat-Resisting Alloy Billets, Bars and Forging Parts

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

Grade Belongs to the Industry: Billets, Bars and Forging Parts

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 - 0.200	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	14.000 - 16.000		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	3.000 - 5.000		
Cobalt	Co %	13.000 - 15.500		
Copper	Cu %	0.200 max.		
Aluminium	Al %	4.500 - 5.500		
Boron	B %	0.010 - 0.025		
Titanium	Ti %	3.500 - 4.500	Mechanical Properties Tensile Strength in Mpa 1240 - 1273 Yield Strength in Mpa 865 - 870.4 Elongation in % 27 - 27.6 Reduction of Area in % 34.25 Hardness in BHN - Impact in Joule -	
Lead	Pb %	0.0015 max.		
Zirconium	Zr %	0.150 max.		
Iron	Fe %	1.000 max.		
Nickel	Ni %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Nimonic Alloy 115	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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