

Material: SAE Hastelloy X

Standard Specification for Nickel and Nickel Alloy Tube

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Hastelloy X Nickel and Nickel Alloy Tube

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

Grade Belongs to the Industry: Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.150	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	20.500 - 23.000		
Cobalt	Co %	0.500 - 2.500		
Copper	Cu %	0.500 max.		
Molybdenum	Mo %	8.000 - 10.000		
Aluminium	Al %	0.500 max.		
Boron	B %	0.010 max.		
Iron	Fe %	17.000 - 20.000		
			Mechanical Properties	
Phosphorus	P %	0.040 max.	Tensile Strength in Mpa	379 min.
Sulphur	S %	0.030 max.	Yield Strength in Mpa	241 min.
Tungsten	W %	0.200 - 1.000	Elongation in %	8 min.
Nickel	Ni %	Balance	Reduction of Area in %	64 - 65
-	-	-	Hardness in HB	277 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4665	DIN	Germany	Strip and Sheet
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Customer Care: +91-99090 45075 Email: info@icastllp.com