

Material: IS 4131 NiCu31Mn1Si1Fe

Standard Specification for Nickel Copper Alloy Castings

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 4131 NiCu31Mn1Si1Fe Nickel Copper Alloy Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 - 1.200		
Manganese	Mn %	0.500 - 1.500		
Sulphur	S %	0.060 max.		
Iron	Fe %	3.000 max.		
Lead	Pb %	0.005 max.		
Other	Ot %	0.500 max.		
Ni + Co	Ni% + Co%	63.000 - 68.000		
Copper	Cu %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	358 min.
-	-	-	Yield Strength in Mpa	172 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	105 - 155
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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