

Material: IS 4131 NiCu29Mn1Si3Fe

Standard Specification for Nickel Copper Alloy Castings

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 4131 NiCu29Mn1Si3Fe Nickel Copper Alloy Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.120 max.
Silicon	Si %	2.500 - 3.000
Manganese	Mn %	0.500 - 1.500
Sulphur	S %	0.050 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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	510 min.
Yield Strength in Mpa	279 min.
Elongation in %	8 min.
Reduction of Area in %	-
Hardness in HV	185 - 240
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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