



Material - UNS N08004

Standard Specification for Nickel Iron Chromium Alloy Solid Solution Strengthened

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS N08004 Nickel Iron Chromium Alloy Solid Solution Strengthened

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 - 0.750	Soft Annealing, Cast	
Silicon	Si %	2.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	17.000 - 21.000		
Nickel	Ni %	37.000 - 41.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	435 min.
-	-	-	Yield Strength in Mpa	170 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4859	DIN	Germany	Casting
G X 40 NiCrSiNb 38-18	DIN	Germany	Casting
G X 10 NiCrNb 32-20	DIN	Germany	Casting
N08151	UNS	USA	Casting
SA-351 CT15C	ASME	USA	Casting
1.4849	DIN	Germany	Casting
A351 CT15C	ASTM	USA	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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