

Material: UNS N08005

Standard Specification for Nickel Iron Chromium Alloy Solid Solution Strengthened

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS N08005 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		
Carbon	C %	0.400 - 0.600
Silicon	Si %	0.500 - 2.000
Manganese	Mn %	1.500 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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	-
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N08050	UNS	USA	Casting
A608 Grade HT50	ASTM	USA	Casting
N08004	UNS	USA	Casting
G X 40 NiCrSiNb 38-18	DIN	Germany	Casting
1.4849	DIN	Germany	Casting
N08605	UNS	USA	Casting
A297 Grade HT	ASTM	USA	Casting

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