

Material: UNS N08001

Standard Specification for Nickel Iron Chromium Alloy Solid Solution Strengthened

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS N08001 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 %	0.350 - 0.750
Silicon	Si %	2.500 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	10.000 - 14.000
Molybdenum	Mo %	0.500 max.
Nickel	Ni %	58.000 - 62.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A608 Grade HW 50	ASTM	USA	Casting
G X 55 NiCr 60-12	UNI	Italy	Casting
N08006	UNS	USA	Casting
A297 Grade HW	ASTM	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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