

Material: UNS N08050

Standard Specification for Nickel Iron Chromium Alloy Solid Solution Strengthened

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS N08050 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 %	0.400 - 0.600	As - Cast	
Silicon	Si %	0.500 - 2.000		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	15.000 - 19.000		
Nickel	Ni %	33.000 - 37.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	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 -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N08605	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
N08005	UNS	USA	Casting
A297 Grade HT	ASTM	USA	Casting

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