



## 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			Heat Treatment	
Carbon	C %	0.350 - 0.750	As - Cast	
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		
-	-	-		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	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
-	-	-	-
-	-	-	-
-	-	-	-

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

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