

Material: UNS N06050

Standard Specification for Castings, Nickel Chromium Alloy Solid Solution Strengthened

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS N06050 Castings, Nickel 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 %	15.000 - 19.000
Molybdenum	Mo %	0.500 max.
Nickel	Ni %	64.000 - 68.000
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 HX 50	ASTM	USA	Casting
G X 55 NiCr 60-12	UNI	Italy	Casting
N06006	UNS	USA	Casting
A297 Grade HX	ASTM	USA	Casting
IS 4522 Grade 14	IS	India	Casting
13505 Grade HX	IS	India	Casting
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