

Material: ASTM A297 Grade HN

Standard Specification for Steel Castings, Iron-Chromium and Iron-Chromium-Nickel, Heat Resistant for General Application

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A297/ A297M Steel Castings, Iron-Chromium and Iron-Chromium-Nickel, Heat Resistant for General Application

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.500	As - Cast	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	19.000 - 23.000		
Nickel	Ni %	23.000 - 27.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	435 min.
			Yield Strength in Mpa	-
			Elongation in %	8 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J94213	UNS	USA	Casting
A608 Grade HN 40	ASTM	USA	Casting
J94214	UNS	USA	Casting
SCH 19	JIS	Japan	Casting
4522 Grade 11	IS	India	Casting
13505 Grade 12	IS	India	Casting
HN	NBR	Brazil	Casting

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