

Material: ASTM A297 Grade HP

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 %	0.350 - 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 %	24.000 - 28.000		
Nickel	Ni %	33.000 - 37.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	430 min.
-	-	-	Yield Strength in Mpa	235 min.
-	-	-	Elongation in %	4.5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N08705	UNS	USA	Casting
1.4857	DIN	Germany	Casting
G X 40 NiCrSi 35-25	DIN	Germany	Casting
40 NiCrSi 35-25	MSZ	Hungary	Casting
G X 50 NiCr 35-25	UNI	Italy	Casting
SCH 24	JIS	Japan	Casting
HP	NBR	Brazil	Casting

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