

## Material: ASTM A297 Grade HH

### 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 %	24.000 - 28.000		
Nickel	Ni %	11.000 - 14.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	515 min.
			Yield Strength in Mpa	240 min.
			Elongation in %	10 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93503	UNS	USA	Casting
1.4837	DIN	Germany	Casting
309 C 30	BS	British	Casting
SCH 13 A	JIS	Japan	Casting
422936	CSN	Czech Republic	Casting
40 CH 24N 12 SL	GOST	Russia	Casting
40 CrNiSi 25-12	MSZ	Hungary	Casting

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