

## Material: ASTM A297 Grade HD

### 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 %	0.500 max.	As - Cast	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	26.000 - 30.000		
Nickel	Ni %	4.000 - 7.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	515 min.
			Yield Strength in Mpa	240 min.
			Elongation in %	8 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93005	UNS	USA	Casting
392 G X 30 CrNi 27-5	SFS	Finland	Casting
1.4823	DIN	Germany	Casting
G X 35 Cr 28	UNI	Italy	Casting
40 CrNiSi 25-4	MSZ	Hungary	Casting
G X 40 CrNiSi 27-4	DIN	Germany	Casting
A297 Grade HC	ASTM	USA	Casting

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)