

Material: ASTM A608 Grade HH 33

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A608 Grade HH 33 Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.280 - 0.380	Solution Annealing	
Silicon	Si %	0.500 - 2.000		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	12.000 - 14.000		
Molybdenum	Mo %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	28 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
13505 Grade 9	IS	India	Casting
422936	CSN	Czech Republic	Casting
J93633	UNS	USA	Casting
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