

Material: UNS J94652

Standard Specification for Cast Chromium Nickel Molybdenum Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS J94652 Cast Chromium Nickel Molybdenum Stainless Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	20.000 - 22.000		
Nickel	Ni %	23.000 - 27.000		
Molybdenum	Mo %	4.500 - 5.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	435 min.
-	-	-	Yield Strength in Mpa	170 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CN3M	ASTM	USA	Casting
SA-352 LC9	ASME	USA	Casting
B-136 Grade LC9	NMX	Maxicon	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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