

Material: UNS J93373

Standard Specification for Cast Duplex Chromium Nickel Copper Molybdenum Nitrogen Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS J93373 Cast Duplex Chromium Nickel Copper Molybdenum Nitrogen 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 %	1.100 max.		
Manganese	Mn %	1.200 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 26.700		
Nickel	Ni %	5.600 - 6.700		
Molybdenum	Mo %	2.900 - 3.800		
Nitrogen	N %	0.220 - 0.330		
Copper	Cu %	1.400 - 1.900		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	690 min.
			Yield Strength in Mpa	450 min.
			Elongation in %	25 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 S32205	ASTM	USA	Plate, Sheet and Strip
A276 S32205	ASTM	USA	Bar and Shapes
A988 S32205	ASTM	USA	Casting
J92205	UNS	USA	Casting
J93372	UNS	USA	Casting
A995 1B	ASTM	USA	Casting
A890 1B	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com