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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

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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