

Material: UNS J92972

Standard Specification for Cast Chromium Manganese Nickel Silicon Nitrogen Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS J92972 Cast Chromium Manganese Nickel Silicon Nitrogen Stainless Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	3.500 - 4.500
Manganese	Mn %	7.000 - 9.000
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	8.000 - 9.000
Nitrogen	N %	0.080 - 0.180
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	585 min.
Yield Strength in Mpa	295 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF10MnN	ASTM	USA	Casting
SA-351 CF10SMnN	ASME	USA	Casting
S21800	UNS	USA	Casting
5848	AMS	USA	Bar, Wire, Extrusions, Tube, Ring and Forging
SA-276 S21800	ASME	USA	Bar and Shapes
A580 S21800	ASTM	USA	Wire
A351 CF10SMnN	ASTM	USA	Casting

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