

Material: ASME SA-276 S21800

Stainless Steel Bars and Shapes

Group: Ferrous Stainless Steel Alloys

Sub Group: SA-276 Stainless Steel Bars and Shapes

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

Grade Belongs to the Industry: Bar and Shapes

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	Soft Annealing, Cast	
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	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	655 min.
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in BHN	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF10MnN	ASTM	USA	Casting
J92972	UNS	USA	Casting
S21800	UNS	USA	Casting
5848	AMS	USA	Bar, Wire, Extrusions, Tube, Ring and Forging
SA-351 CF10SMnN	ASME	USA	Casting
A580 S21800	ASTM	USA	Wire
A351 CF10SMnN	ASTM	USA	Casting

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