GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A314 S21800

Standard Specification for Stainless Steel Billets and Bars for Forging

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A314 S21800 Stainless Steel Billets and Bars for Forging

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

Grade Belongs to the Industry - Billets, Bars and Forging

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

Heat Treatment
As-Raw & Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-276 S21800	ASME	USA	Bars and Shapes
SA-479 Type S21800	ASME	USA	Bars and Shapes
A 276 S21800	ASTM	USA	Bars and Shapes
A 479 Type S21800	ASTM	USA	Bars and Shapes
A 580 S21800	ASTM	USA	Steel and Wire
A959 S21800	ASTM	USA	Steel
A 194 Grade 8S	ASTM	USA	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.