GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A314 S33228

Standard Specification for Stainless Steel Billets and Bars for Forging

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A314 S33228 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 %	0.040 - 0.080
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.300 max.
Chromium	Cr %	26.000 - 28.000
Nickel	Ni %	31.000 - 33.000
Niobium	Nb %	0.600 - 1.000
Cerium	Ce %	0.050 - 0.100
Aluminium	Al %	0.025 max.
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-479 UNS S33228	ASME	USA	Steel and Bars
A 167 S33228	ASTM	USA	Plate, Sheet and Strip
A 213 S33228	ASTM	USA	Steel and Tubing
A 312 S33228	ASTM	USA	Steel and Pipe
A 249 S33228	ASTM	USA	Steel and Tubing
A 479 S33228	ASTM	USA	Steel and Bars
A 959 S33228	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.