GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A1008 SS Grade 33 [230] Type 1

Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A1008 SS Grade 33 [230] Type 1 Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability

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

Grade Belongs to the Industry - Steel and Sheet

Chemical Composition		
Carbon	C %	0.200 max.
Manganese	Mn %	0.600 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Copper	Cu %	0.200 max.
Nickel	Ni %	0.200 max.
Chromium	Cr %	0.150 max.
Molybdenum	Mo %	0.060 max.
Vanadium	V %	0.008 max.
Niobium	Nb %	0.008 max.
Cr + Cu + Mo + Ni	Cr% + Cu% + Mo% + Ni%	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	330 min.
Yield Strength in Mpa	230 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 308 SS Grade 33 Type 1	ASTM	USA	Steel and Sheet
A 591 A611-SQ Grade A	ASTM	USA	Steel and Sheet
A 794 CS Type 1015	ASTM	USA	Steel and Sheet
A 1008 CS Type A	ASTM	USA	Steel and Sheet
A 366 CS Type A	ASTM	USA	Steel and Sheet
A 463 CS Type A	ASTM	USA	Steel and Sheet
SA-1008 SS Grade 33 [230] Type 1	ASME	USA	Steel and Sheet

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.