GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-311 Grade 1050

Standard Specification for Cold-Drawn, Stress-Relieved Carbon Steel Bars Subject to Mechanical Property Requirements

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-311 Grade 1050 Cold-Drawn, Stress-Relieved Carbon Steel Bars Subject to Mechanical Property Requirements

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

Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.480 - 0.550
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	620 min.
Elongation in %	11 min.
Reduction of Area in %	35 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G10500	UNS	USA	Bars and Forging
SAE J 403 1050	AISI	USA	Bars, Forging, Wire Rods and Tubing
A 311 1050	ASTM	USA	Steel and Bars
A 108 1050	ASTM	USA	Steel and Bars
A 519 1050	ASTM	USA	Steel and Tubing
A 513 1050	ASTM	USA	Steel and Tubing
A 510 1050	ASTM	USA	Wire and Wire Rods

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.