



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 311 1018 Class A

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 311 1018 Class A Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

Grade Belongs to the Industry - Steel and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	380 min.
			Yield Strength in Mpa	310 min.
			Elongation in %	15 min.
			Reduction of Area in %	35 min.
			Hardness in HB	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10180	UNS	USA	Bars, Wire Rods and Tubing
1018	SAE	USA	Steel
1018	AISI	USA	Tubing
A 1040 1018	ASTM	USA	Steel
A 108 Grade 1018	ASTM	USA	Steel and Bar
A 29 1018	ASTM	USA	Steel and Bar
A 510 1018	ASTM	USA	Wire Rod and Round Wire

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.

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