

Material - SAE J403 I SAE J1397 UNS G10450 - Hot Rolled

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets and Tubing

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J403 I SAE J1397 UNS G10450 - Hot Rolled Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	570 min.
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	163 max.
-	-	-	Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
1045	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
1045	AISI	USA	Steel and Bar		
A 311 1045 Class A	ASTM	USA	Steel and Bar		
A 311 1045 Class B	ASTM	USA	Steel and Bar		
A 830 G10450	ASTM	USA	Plate and Steel		
A 827 1045	ASTM	USA	Plate, Steel and Forging		
A 682 Grade 1045	ASTM	USA	Steel and Strip		

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

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