

Material - SAE J403 I SAE J1397 UNS G10450 - Cold Drawn

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 - Cold Drawn 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	
C %	0.430 - 0.500		
Mn %	0.600 - 0.900	As Raw or Annealing or Normalizing or Hardening and Tempering	
P %	0.030 max.		olizing or Hardoning and
S %	0.050 max.		· ·
Fe %	Balance		ing .
-	-		
-	-		
-	-		
-	-	Mechanical Properties	
-	-	Tensile Strength in Mpa	630 min.
-	-	Yield Strength in Mpa	530 min.
-	-	Elongation in %	12 min.
-	-	Reduction of Area in %	35 min.
-	-	Hardness in HB	179 max.
-	-	Impac <mark>t in Joule</mark>	-
	C % Mn % P % S % Fe %	C % 0.430 - 0.500 Mn % 0.600 - 0.900 P % 0.030 max. S % 0.050 max. Fe % Balance	C % 0.430 - 0.500 Mn % 0.600 - 0.900 P % 0.030 max. S % 0.050 max. Fe % Balance - - - - - Mechanical Properties Tensile Strength in Mpa Yield Strength in Mpa Yield Strength in Mpa Elongation in % Reduction of Area in % Hardness in HB

	Cross Reference Table				
Mate	rial	Standard	Country	Country Grade Belong to the Industry	
104	5	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
104	5	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 G1	L0450	ASTM	USA	Plate and Steel	
A 827 1	L045	ASTM	USA	Plate, Steel and Forging	
A 682 Grad	de 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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