



Material - AISI 1527

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

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 1527 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 - 0.290		
Manganese	Mn %	1.200 - 1.500	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.040 max.		olizing or Hardoning and
Sulphur	S %	0.050 max.		· ·
Boron	В %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.025 max.		
Silicon	Si %	0.100 max.	Mechanical Properties	
Vanadium	V %	0.050 max.	Tensile Strength in Mpa	520 - 570
Iron	Fe %	Balance	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 40
-	-	-	Hardn <mark>ess in HB</mark>	149 - 163
-	-	-	Impact in Joule	-

Cross Reference Table					
Material	Standard	Country Grade Belong to the Industry			
G15270	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing		
1527	SAE	USA	Plate, Strip, Sheets and Tubing		
A 29 1527	ASTM	USA	Steel and Bar		
A 510 1527	ASTM	USA	Wire Rod, Round Wire and Steel		
A 576 15L27	ASTM	USA	Steel and Bar		
A 830 1527	ASTM	USA	Plate and Steel		
A 830 G15270	ASTM	USA	Plate and Steel		

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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