

Material: AISI 1547

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1547 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bar and Steel

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

Grade Belongs to the Industry: Bar and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.510	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 min.
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	207 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15470	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1547	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
SMnC443	JIS	Japan	Steel
NV 2	SAE	USA	Valve
SMnC443	SAE	USA	Valve
A 576 15L47	ASTM	USA	Steel and Bar
A 510 1547	ASTM	USA	Wire Rod, Round Wire and Steel

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