

Material: ASTM A 29 1151

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 29 1151 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 %	0.480 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.080 - 0.130		
Aluminium	Al %	0.020 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	630 min.
-	-	-	Yield Strength in Mpa	340 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 35
-	-	-	Hardness in HB	187 - 321
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11510	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1151	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1151	AISI	USA	Steel and Bar
A 1040 1151	ASTM	USA	Steel
A 108 Grade 1151	ASTM	USA	Steel and Bar
A 510 1151	ASTM	USA	Wire Rod, Round Wire and Steel
A 576 11L51	ASTM	USA	Steel and Bar

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