

Material: ASTM A 29 1524

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 1524 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 %	0.190 - 0.250	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.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.025 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	510 - 570
-	-	-	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 42
-	-	-	Hardness in HB	149 - 163
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15240	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1524	SAE	USA	Steel
1524	AISI	USA	Steel and Bar
A 510 1524	ASTM	USA	Wire Rod, Round Wire and Steel
A 830 G15240	ASTM	USA	Plate and Steel
A 513 Grade 1524	ASTM	USA	Tubing
A 519 1524	ASTM	USA	Tubing

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