

Material: ASTM A 29 1029

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 1029 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 %	0.250 - 0.310	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 min.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.020 max.		
Niobium	Nb %	0.015 max.		
Vanadium	V %	0.020 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10290	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1029	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1029	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 1040 1029	ASTM	USA	Steel
A 510 1029	ASTM	USA	Wire Rod and Round Wire
A 576 10L29	ASTM	USA	Steel and Bar
SA-29 1029	ASME	USA	Steel and Bar

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