

Material: ASTM A 29 1074

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 29 107 Carbon Steel Compositions For Forging To Hot-Rolled 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 %	0.700 - 0.800	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Copper	Cu %	0.200 Min.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 min.		
Niobium	Nb %	0.015 min.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 min.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	650 - 720
-	-	-	Yield Strength in Mpa	400 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardness in HB	192 - 217
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10740	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1074	SAE	USA	Steel
1074	AISI	USA	Steel and Bar
A 1040 1074	ASTM	USA	Steel
A 510 1074	ASTM	USA	Steel
A 682 G10740	ASTM	USA	Steel and Strip
A 682 Grade 1074	ASTM	USA	Steel and Strip

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