

Material: AISI 1074

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1074 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.		
Boron	B %	0.0005 - 0.003		
Aluminium	Al %	0.020 min.		
Copper	Cu %	0.200 min.		
Niobium	Nb %	0.015 min.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties 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
A 1040 1074	ASTM	USA	Steel
A 29 1074	ASTM	USA	Steel and Bar
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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