Material: SAE 1005

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets, Tubing

Group: *Ferrous Mild Steel Alloys*

Sub Group: *SAE 1005 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods,* **Plates, Strip, Sheets and Tubing**

Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*

Grade Belongs to the Industry: *Bars, Wire Rods, Plates, Strip, Sheets and Tubing*

Chemical Composition		
Carbon	C %	0.060 max.
Manganese	Mn %	0.350 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	0.070 max.
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.050 max.
Nickel	Ni %	0.150 max.
Silicon	Si %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	262 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G10050	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1005	AISI	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 29 1005	ASTM	USA	Bar
A 510 1005	ASTM	USA	Wire Rod
A 1040 1005	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1.03	ONORM	Australia	Wire Rod
1.0312	ONORM	Australia	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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