

# Material: ASTM A 510 1005

## Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 510 1005 General Requirements for Wire Rods, Coarse Round Wire and Carbon Steel

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

**Grade Belongs to the Industry:** Wire Rod

Chemical Composition		
Carbon	C %	0.060 max.
Manganese	Mn %	0.350 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0008 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	270 - 330
Yield Strength in Mpa	140 - 180
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in BHN	-
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	SAE	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 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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