

## Material: ONORM 1.0312

### 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:** ONORM 1.0312 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, To Wire Rods, Plates, Strip, Sheets, 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			Heat Treatment	
Carbon	C %	0.060 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.350 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	270 - 335
-	-	-	Yield Strength in Mpa	140 - 180
-	-	-	Elongation in %	34 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	100 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	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 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

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)