

Material - ASTM A 1040 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 - ASTM A 1040 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 %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	В %	0.0005 - 0.003		
Silicon	Si %	0.100 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 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	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1005	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 29 1005	ASTM	USA	Bar
A 510 1005	ASTM	USA	Wire Rod
1.03	ONORM	Australia	Wire Rod
1.0312	ONORM	Australia	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.