

# Material: AISI 1065

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AISI 1065 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		
Carbon	C %	0.600 - 0.700
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0005 - 0.003
Copper	Cu %	0.200 max.
Niobium	Nb %	0.0150 min.
Silicon	Si %	0.100 max.
Aluminium	Al %	0.200 max.
Vanadium	V %	0.020 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	630 - 690
Yield Strength in Mpa	380 min.
Elongation in %	10 min.
Reduction of Area in %	30 - 45
Hardness in HB	187 - 207
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10650	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1065	SAE	USA	Plate, Strip, Sheet and Tubing
A 830 G10650	ASTM	USA	Plate and Steel
A 713 G10650	ASTM	USA	Steel and wire
A 682 G10650	ASTM	USA	Steel and Strip
A 682 Grade 1065	ASTM	USA	Steel and Strip
A 684 Grade 1065	ASTM	USA	Steel and Strip

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