

# Material: AISI 1137

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AISI 1137 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished 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 %	0.320 - 0.390
Manganese	Mn %	1.350 - 1.650
Phosphorus	P %	0.040 max.
Sulphur	S %	0.080 - 0.130
Aluminium	Al %	0.020 max.
Niobium	Nb %	0.015 max.
Silicon	Si %	0.100 max.
Vanadium	V %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	450 min
Yield Strength in Mpa	240 min.
Elongation in %	5 min.
Reduction of Area in %	30 min.
Hardness in HB	149 - 255
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11370	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1137	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 1040 1137	ASTM	USA	Steel
A 108 Grade 1137	ASTM	USA	Steel and Bar
A 29 1137	ASTM	USA	Steel and Bar
A 311 1137 Class A	ASTM	USA	Steel and Bar
A 510 1137	ASTM	USA	Wire Rod, Round Wire and Steel

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