

# Material: AISI 1212

## 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 1212 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 %	0.130 max.
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.070 - 0.120
Sulphur	S %	0.160 - 0.230
Aluminium	Al %	0.020 max.
Niobium	Nb %	0.025 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	390 - 540
Yield Strength in Mpa	230 min.
Elongation in %	10 min.
Reduction of Area in %	35 - 45
Hardness in HB	110 - 255
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G12120	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1212	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 1040 1212	ASTM	USA	Steel
A 576 1212	ASTM	USA	Steel and Bar
SA-29 1212	ASME	USA	Steel
A 108 Grade 1212	ASTM	USA	Steel and Bar
A 29 1212	ASTM	USA	Steel and Bar

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