

# Material: ASTM A 29 1215

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 29 1215 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			Heat Treatment
Carbon	C %	0.090 max.	As Raw or Annealing or Normalizing or Hardening and Tempering
Manganese	Mn %	0.750 - 1.050	
Phosphorus	P %	0.040 - 0.090	
Sulphur	S %	0.260 - 0.350	
Aluminium	Al %	0.020 max.	
Niobium	Nb %	0.025 max.	
Vanadium	V %	0.050 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
Tensile Strength in Mpa			-
Yield Strength in Mpa			-
Elongation in %			-
Reduction of Area in %			-
Hardness in HB			110 - 255
Impact in Joule			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G12150	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1215	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1215	AISI	USA	Steel and Bar
A 1040 1215	ASTM	USA	Steel
A 576 1215	ASTM	USA	Steel and Bar
SA-29 1215	ASME	USA	Steel
A 108 Grade 1215	ASTM	USA	Steel and Bar

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