

Material: ASTM A 108 Grade 1213

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 108 Grade 1213 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 %	0.130 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.070 - 0.120		
Sulphur	S %	0.240 - 0.330		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
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-	-	-	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 121 - 167 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G12130	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1213	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1213	AISI	USA	Steel and Bar
A 1040 1213	ASTM	USA	Steel
A 576 1213	ASTM	USA	Steel and Bar
SA-29 1213	ASME	USA	Steel
A 29 1213	ASTM	USA	Steel and Bar

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