

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 - | |
| - | - | - | | |
| - | - | - | | |
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| 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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