

Material: ASTM A 830 G10550

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 830 G10550 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate and Steel

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Plate and Steel

| Chemical Composition | | | Heat Treatment |
|-----------------------|------|---------------|---|
| Carbon | C % | 0.500 - 0.600 | As Raw or Annealing or Normalizing or Hardening and Tempering |
| Manganese | Mn % | 0.600 - 0.900 | |
| Phosphorus | P % | 0.035 max. | |
| Sulphur | S % | 0.040 max. | |
| Silicon | Si % | 0.150 - 0.400 | |
| Iron | Fe % | Balance | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| Mechanical Properties | | | |
| | | | Tensile Strength in Mpa |
| | | | 650 - 660 |
| | | | Yield Strength in Mpa |
| | | | 360 min. |
| | | | Elongation in % |
| | | | 10 min. |
| | | | Reduction of Area in % |
| | | | 30 - 40 |
| | | | Hardness in HB |
| | | | 192 - 197 |
| | | | Impact in Joule |
| | | | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| G10550 | UNS | USA | Bars, Wire Rods, Plates, Strip, Sheets and Tubing |
| 1055 | SAE | USA | Strip and Steel |
| 1055 | AISI | USA | Steel and Bar |
| A 713 Grade 1055 | ASTM | USA | Wire |
| A 684 Grade 1055 | ASTM | USA | Strip and Steel |
| A 713 G10550 | ASTM | USA | Steel and Wire |
| A 682 G10550 | ASTM | USA | Strip and Steel |

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