

Material: EN 1.8830

Standard Specification for Fine Grain Structural Steel

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.8830 Fine Grain Structural Steel

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

Grade Belongs to the Industry: Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|-----------|
| Carbon | C % | 0.140 max. | Annealing or Normalizing or Hardening + Tempering | |
| Silicon | Si % | 0.550 max. | | |
| Manganese | Mn % | 1.650 max. | | |
| Phosphorus | P % | 0.020 max. | | |
| Sulphur | S % | 0.010 max. | | |
| Nitrogen | N % | 0.010 max. | | |
| Nickel | Ni % | 0.070 max. | | |
| Molybdenum | Mo % | 0.250 max. | | |
| Vanadium | V % | 0.080 max. | Mechanical Properties | |
| Niobium | Nb % | 0.050 max. | Tensile Strength in Mpa | 480 - 660 |
| Titanium | Ti % | 0.025 max. | Yield Strength in Mpa | 380 min. |
| Aluminium | Al % | 0.015 - 0.055 | Elongation in % | 19 min. |
| Iron | Fe % | Balance | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|-----------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| AISI 4020 | AISI | USA | Forging, Bar, Wire, and Shape |
| 1.8866 | DIN | Germany | Steel |
| C450L0 | AS | Australia | Steel |
| P355Q | AFNOR NF | France | Steel |
| P355QH | UNI | Italy | Steel |
| C450 | AS | Australia | Steel |
| A732 6N | ASTM | USA | Casting |

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