



Material - UNI 11 CrMo 9-10

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - UNI 11 CrMo 9-10 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel and Flat

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|--|--|
| Carbon | C % | 0.080 - 0.150 | Quenching + Tempering | |
| Silicon | Si % | 0.500 max. | | |
| Manganese | Mn % | 0.400 - 0.800 | | |
| Phosphorus | P % | 0.020 max. | | |
| Sulphur | S % | 0.010 max. | | |
| Chromium | Cr % | 2.000 - 2.500 | | |
| Molybdenum | Mo % | 0.900 - 1.100 | | |
| Copper | Cu % | 0.250 max. | | |
| Nitrogen | N % | 0.012 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 450 - 680 Yield Strength in Mpa 265 min. Elongation in % 17 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 10216-2 | BS | British | Steel and Flat |
| 1.7383 | DIN | Germany | Steel and Flat |
| 1.7383 | DIN | Germany | Steel and Flat |
| 11CrMo9-10 | AFNOR NF | France | Steel and Flat |
| 11CrMo9-10 | BS | British | Steel and Flat |
| 11CrMo9-10 | ISO | International | Steel and Tube |
| 11CrMo9-10 | DIN | Germany | Steel and Flat |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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