



Material - EN X 8 CrNiMoVNb 16 13

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - EN X 8 CrNiMoVNb 16 13 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 % | 0.040 - 0.100 | Solution Annealing | |
| Silicon | Si % | 0.300 - 0.600 | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 15.500 - 17.500 | | |
| Molybdenum | Mo % | 1.100 - 1.500 | | |
| Nickel | Ni % | 12.500 - 14.500 | | |
| Vanadium | V % | 0.600 - 0.850 | | |
| Niobium | Nb % | 1.200 max. | | |
| Nitrogen | N % | 0.060 - 0.140 | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 540 - 740 |
| - | - | - | Yield Strength in Mpa | 255 min. |
| - | - | - | Elongation in % | 20 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 40 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 10216-5 EN 1.4988 | BS | British | Tube |
| 1.4988 | DIN | Germany | Steel |
| 1.4988 | EN | European Union | Steel |
| X8CrNiMoVNb16 13 | DIN | Germany | Steel and Tube |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.