

Material: EN 1.4961

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4961 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel

| 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 % | 15.000 - 17.000 | | |
| Nickel | Ni % | 12.000 - 14.000 | | |
| Niobium | Nb % | 1.200 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 510 - 690 |
| - | - | - | Yield Strength in Mpa | 200 min. |
| - | - | - | Elongation in % | 22 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 60 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 10216-5 EN 1.4961 | BS | British | Tube |
| 1.4961 | DIN | Germany | Steel |
| X8CrNiNb16-13 | EN | European Union | Steel and Flat |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com