

## Material: EN 1.4982

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN 1.4982 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 %  | 0.060 - 0.150   | Solution Annealing      |           |
| Silicon              | Si % | 0.200 - 1.000   |                         |           |
| Manganese            | Mn % | 5.500 - 7.000   |                         |           |
| Phosphorus           | P %  | 0.035 max.      |                         |           |
| Sulphur              | S %  | 0.015 max.      |                         |           |
| Chromium             | Cr % | 14.000 - 16.000 |                         |           |
| Molybdenum           | Mo % | 0.800 - 1.200   |                         |           |
| Nickel               | Ni % | 9.000 - 11.000  |                         |           |
| Niobium              | Nb % | 0.750 - 1.250   |                         |           |
| Vanadium             | V %  | 0.150 - 0.400   |                         |           |
|                      |      |                 | Mechanical Properties   |           |
| Boron                | B %  | 0.003 - 0.009   | Tensile Strength in Mpa | 540 - 850 |
| Iron                 | Fe % | Balance         | Yield Strength in Mpa   | 220 min.  |
| -                    | -    | -               | Elongation in %         | 25 min.   |
| -                    | -    | -               | Reduction of Area in %  | -         |
| -                    | -    | -               | Hardness in BHN         | -         |
| -                    | -    | -               | Impact in Joule         | 50 J @ RT |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 10216-5 EN 1.4982     | BS       | British        | Tube                         |
| 1.4982                | DIN      | Germany        | Steel                        |
| X10CrNiMoMnNbVB15101  | EN       | European Union | Steel and Tube               |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |

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