



## Material - EN 1.4558

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

Group - Ferrous Stainless Steel Alloys

Sub Group - EN 1.4558 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel, Rolling and Forging

| Chemical Composition |      |                 | Heat Treatment               |           |
|----------------------|------|-----------------|------------------------------|-----------|
| Carbon               | C %  | 0.030 max.      | Solution Annealing           |           |
| Silicon              | Si % | 0.700 max.      |                              |           |
| Manganese            | Mn % | 1.000 max.      |                              |           |
| Phosphorus           | P %  | 0.020 max.      |                              |           |
| Sulphur              | S %  | 0.015 max.      |                              |           |
| Chromium             | Cr % | 20.000 - 23.000 |                              |           |
| Nickel               | Ni % | 32.000 - 35.000 |                              |           |
| Titanium             | Ti % | 0.600 max.      |                              |           |
| Aluminium            | Al % | 0.150 - 0.450   |                              |           |
| Iron                 | Fe % | Balance         | <b>Mechanical Properties</b> |           |
| -                    | -    | -               | Tensile Strength in Mpa      | 450 - 700 |
| -                    | -    | -               | Yield Strength in Mpa        | 180 min.  |
| -                    | -    | -               | Elongation in %              | 30 min.   |
| -                    | -    | -               | Reduction of Area in %       | -         |
| -                    | -    | -               | Hardness in BHN              | -         |
| -                    | -    | -               | Impact in Joule              | 90 J @ RT |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| 10216-5 EN 1.4558     | BS       | British | Tube                         |
| 1.4558                | DIN      | Germany | Steel, Rolling and Forging   |
| X2NiCrAlTi32-20       | DIN      | Germany | Steel, Rolling and Forging   |
| NCF 800 TB            | JIS      | Japan   | 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](mailto:marketing@gravitycastindia.com)**

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