

## Material: EN 1.7362+I

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

**Group:** Ferrous Alloy Steel

**Sub Group:** EN 1.7362+I 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 %  | 0.080 - 0.150 | Isothermal Annealing    |           |
| Silicon              | Si % | 0.150 - 0.500 |                         |           |
| Manganese            | Mn % | 0.300 - 0.600 |                         |           |
| Phosphorus           | P %  | 0.025 max.    |                         |           |
| Sulphur              | S %  | 0.020 max.    |                         |           |
| Chromium             | Cr % | 4.000 - 6.000 |                         |           |
| Molybdenum           | Mo % | 0.450 - 0.650 |                         |           |
| Aluminium            | Al % | 0.040 max.    |                         |           |
| Copper               | Cu % | 0.300 max.    |                         |           |
| Iron                 | Fe % | Balance       | Mechanical Properties   |           |
| -                    | -    | -             | Tensile Strength in Mpa | 430 - 580 |
| -                    | -    | -             | Yield Strength in Mpa   | 175 min.  |
| -                    | -    | -             | Elongation in %         | 20 min.   |
| -                    | -    | -             | Reduction of Area in %  | -         |
| -                    | -    | -             | Hardness in HB          | 163 max.  |
| -                    | -    | -             | Impact in Joule         | 27 J @ RT |

| Cross Reference Table |          |                |                                 |
|-----------------------|----------|----------------|---------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry    |
| 1.7362+I              | EN       | European Union | Steel and Tube                  |
| 1.7362+I              | DIN      | Germany        | Steel                           |
| X12CrMo5              | DIN      | Germany        | Steel                           |
| X12CrMo51             | ISO      | International  | Steel, Forging, Rolling and Bar |
| X11CrMo5TA            | ISO      | International  | Steel                           |
| X11CrMo5TN+TT         | ISO      | International  | Steel and Tube                  |
| X12CrMo5              | EN       | European Union | Steel                           |

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)