

# Material: DIN 1.6369

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.6369 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 |      |               |
|----------------------|------|---------------|
| Carbon               | C %  | 0.100 - 0.170 |
| Silicon              | Si % | 0.250 - 0.500 |
| Manganese            | Mn % | 0.800 - 0.120 |
| Phosphorus           | P %  | 0.016 max.    |
| Sulphur              | S %  | 0.005 max.    |
| Chromium             | Cr % | 0.300 max.    |
| Molybdenum           | Mo % | 0.250 - 0.400 |
| Nickel               | Ni % | 1.000 - 1.300 |
| Niobium              | Nb % | 0.015 - 0.025 |
| Aluminium            | Al % | 0.050 max.    |
| Copper               | Cu % | 0.500 - 0.800 |
| Nitrogen             | N %  | 0.020 max.    |
| Iron                 | Fe % | Balance       |
| -                    | -    | -             |
| -                    | -    | -             |

| Heat Treatment          |
|-------------------------|
| Normalizing + Tempering |

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | 580 - 780 |
| Yield Strength in Mpa   | 410 min.  |
| Elongation in %         | 16 min.   |
| Reduction of Area in %  | 25 min.   |
| Hardness in BHN         | -         |
| Impact in Joule         | 41 J @ RT |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 1.6368                | EN       | European Union | Steel and Flat               |
| 1.6368                | DIN      | Germany        | Steel and Flat               |
| 1.6368                | DIN      | Germany        | Steel and Flat               |
| 15NiCuMoNb5           | DIN      | Germany        | Steel                        |
| 15 NiCuMoNb 5 S       | DIN      | Germany        | Steel                        |
| 1.6369                | DIN      | Germany        | Steel                        |
| 15 NiCuMoNb 5 S       | DIN      | Germany        | Steel                        |

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