

Material: DIN 1.0471

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.0471 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel and Tube

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|-------------------------|-----------|
| Carbon | C % | 0.220 max. | Normalizing Forming | |
| Silicon | Si % | 0.150 - 0.350 | | |
| Manganese | Mn % | 1.000 - 1.500 | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.010 max. | | |
| Aluminium | Al % | 0.060 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Niobium | Nb % | 0.015 - 0.100 | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 500 - 650 |
| - | - | - | Yield Strength in Mpa | 335 min. |
| - | - | - | Elongation in % | 20 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 27 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|--------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.0471 | EN | European Union | Steel and Tube |
| 1.0471 | DIN | Germany | Steel and Tube |
| 1522 | AISI | USA | Forging, Rolling, Bar and Tube |
| 150M19 | BS | British | Steel and Tube |
| G15220 | UNS | USA | Forging, Rolling, Bar and Tube |
| SMn21 | JIS | Japan | Forging and Rolling |
| 21MnSi5 | DIN | Germany | Steel and Tube |

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