

Material: BS 762

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 762 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 | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.170 - 0.230 |
| Silicon | Si % | 0.500 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.030 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 10.000 - 12.500 |
| Molybdenum | Mo % | 0.800 - 1.200 |
| Nickel | Ni % | 0.300 - 0.800 |
| Vanadium | V % | 0.250 - 0.350 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 720 - 870 |
| Yield Strength in Mpa | 470 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|---------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.4922 | EN | European Union | Forging, Rolling, Steel and Bar |
| 1.4922 | DIN | Germany | Forging, Rolling, Steel and Bar |
| 1.4922 | DIN | Germany | Forging, Rolling, Steel and Bar |
| X20CrMoV121 | ISO | International | Forging, Rolling, Steel and Bar |
| 12Cr10MoVN10.47 | MSZ | Hungary | Steel and Tube |
| X20CrMoNiV11 11 | ISO | International | Steel and Tube |
| X20CrMoV121 | DIN | Germany | Forging, Rolling, Steel and Bar |

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