

Material: BS 10216-5 EN 1.4948

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 10216-5 Seamless Steel Tubes for Pressure Purposes

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

Belongs to the Industry: Tube

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 0.040 - 0.080 | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 17.000 - 19.000 | | |
| Nickel | Ni % | 8.000 - 11.000 | | |
| Nitrogen | N % | 0.110 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 500 - 700 Yield Strength in Mpa 185 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 60 min. @ RT | |
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| Cross Reference Table | | | |
|-----------------------|----------|----------------|--|
| Material | Standard | Country | Grade Belong to the Industry |
| A743 CF8 | ASTM | USA | Casting |
| 304 | AISI | USA | Bar, Wire, Strip, Plate, Sheet and Forging |
| 1.4308 | DIN | Germany | Casting |
| 1.4301 | EN | European Union | Forging |
| 304 S 11 | BS | British | Bright Bars, Hot Rolled and Cold Rolled Coil |
| SUS 304 | JIS | Japan | Hot Rolled Equal Leg Angles |
| 08CH18N10 | GOST | Russia | Pipes, Fittings, Bar, Sheet and Forging |

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