



Material - UNI X 2 CrNiN 18-10

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - UNI X 2 CrNiN 18-10 Seemless Steel Tubes for Pressure Purposes
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Sheet, Plate, Strip and Bar

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------------|-----------|
| Carbon | C % | 0.030 max. | | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 2.000 max. | Solution Annealing | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.000 - 19.500 | | |
| Nickel | Ni % | 8.500 - 11.500 | | |
| Nitrogen | N % | 0.120 - 0.220 | | _ |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | | Tensile Strength in Mpa | 550 - 750 |
| - | - | - | Yield Strength in Mpa | 270 min. |
| - | - | - | Elongation in % | 30 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 230 max. |
| - | - | - | Impac <mark>t in Joule</mark> | 60 J @ RT |

| Cross Reference Table | | | | |
|-----------------------|----------|----------------|-------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| 1.4311 | EN | European Union | Tube | |
| 1.4311 | DIN | Germany | Steel | |
| 1.4311 | DIN | Germany | Steel | |
| CrNi18/9-0.03C/N | BS | British | Steel and Flat | |
| X3CrNiN18-10 | AFNOR NF | France | Steel and Tube | |
| SUS 304 LN | JIS | Japan | Steel, Plate, Sheet and Strip | |
| X2CrNiN18 10 KKW | ONORM | Australia | Steel | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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