

Material: AFNOR NF X2CrNiMoN17-13-5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF X2CrNiMoN17-13-5 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Bar and Rods

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.015 max. |
| Chromium | Cr % | 16.500 - 18.500 |
| Molybdenum | Mo % | 4.000 - 5.000 |
| Nickel | Ni % | 12.500 - 14.500 |
| Nitrogen | N % | 0.120 - 0.220 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--------------------|
| Solution Annealing |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 580 - 800 |
| Yield Strength in Mpa | 270 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | - |
| Hardness in HB | 250 max. |
| Impact in Joule | 60 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|-----------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 10216-5 EN 1.4439 | BS | British | Tube |
| 1.4439 | DIN | Germany | Steel |
| 1.4439 | EN | European Union | Steel |
| X2CrNiMoN17 13 5 | DIN | Germany | Steel |
| X2CrNiMoN17 13 5 | ISO | International | Steel |
| X2CrNiMoN17 13 5 KW | ONORM | Australia | Steel |
| X2CrNiMoN17 13 | UNE | Spain | Steel, Bar, Wire, Rod and Forging |

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