

## Material: EN 1.4424

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN 1.4424 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 %  | 0.030 max.      | Solution Annealing                                                                                                                                                                                                 |  |
| Silicon              | Si % | 1.400 - 2.000   |                                                                                                                                                                                                                    |  |
| Manganese            | Mn % | 1.200 - 2.000   |                                                                                                                                                                                                                    |  |
| Phosphorus           | P %  | 0.035 max.      |                                                                                                                                                                                                                    |  |
| Sulphur              | S %  | 0.015 max.      |                                                                                                                                                                                                                    |  |
| Chromium             | Cr % | 18.000 - 19.000 |                                                                                                                                                                                                                    |  |
| Molybdenum           | Mo % | 2.500 - 3.000   |                                                                                                                                                                                                                    |  |
| Nickel               | Ni % | 4.500 - 5.200   |                                                                                                                                                                                                                    |  |
| Nitrogen             | N %  | 0.050 - 0.100   |                                                                                                                                                                                                                    |  |
| Iron                 | Fe % | Balance         |                                                                                                                                                                                                                    |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 680 - 900<br>Yield Strength in Mpa 400 min.<br>Elongation in % 25 min.<br>Reduction of Area in % -<br>Hardness in HB 260 max.<br>Impact in Joule 60 J @ RT |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |
| -                    | -    | -               |                                                                                                                                                                                                                    |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 10216-5 EN 1.4424     | BS       | British        | Tube                         |
| 1.4424                | DIN      | Germany        | Steel and Tube               |
| X2CrNiMoSi18-5-3      | EN       | European Union | Steel and Tube               |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |

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