

## Material: EN 1.5430

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 1.5430 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |               | Heat Treatment                                                                                                                                                                                               |  |
|----------------------|------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Carbon               | C %  | 0.060 - 0.100 | Normalizing Forming                                                                                                                                                                                          |  |
| Silicon              | Si % | 0.600 max.    |                                                                                                                                                                                                              |  |
| Manganese            | Mn % | 1.500 - 1.800 |                                                                                                                                                                                                              |  |
| Phosphorus           | P %  | 0.020 max.    |                                                                                                                                                                                                              |  |
| Sulphur              | S %  | 0.015 max.    |                                                                                                                                                                                                              |  |
| Chromium             | Cr % | 0.200 max.    |                                                                                                                                                                                                              |  |
| Molybdenum           | Mo % | 0.300 - 0.400 |                                                                                                                                                                                                              |  |
| Vanadium             | V %  | 0.100 max.    |                                                                                                                                                                                                              |  |
| Niobium              | Nb % | 0.050 max.    |                                                                                                                                                                                                              |  |
| Nitrogen             | N %  | 0.020 max.    |                                                                                                                                                                                                              |  |
| Iron                 | Fe % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 500 - 650<br>Yield Strength in Mpa 350 min.<br>Elongation in % 22 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule 80 J @ RT |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 1.5450                | EN       | European Union | Casting                      |
| 1.545                 | EN       | European Union | Casting                      |
| 1.545                 | DIN      | Germany        | Casting                      |
| GS-8MnMo7 4           | DIN      | Germany        | Casting                      |
| 1.543                 | DIN      | Germany        | Casting                      |
| GS-8MnMo7 4           | UNI      | Italy          | Casting                      |
| GS-8MnMo7 4           | AFNOR NF | France         | Casting                      |

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