

Material: BS 10216-5 EN 1.4507

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 %	0.030 max.	Solution Annealing															
Silicon	Si %	0.700 max.																
Manganese	Mn %	2.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.015 max.																
Chromium	Cr %	24.000 - 26.000																
Nickel	Ni %	5.500 - 7.500																
Molybdenum	Mo %	2.700 - 4.000																
Nitrogen	N %	0.150 - 0.300																
Copper	Cu %	1.000 - 2.500																
Iron	Fe %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>700 - 900</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>500 min.</td> </tr> <tr> <td>Elongation in %</td> <td>20 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>40 min. @ -40°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	700 - 900	Yield Strength in Mpa	500 min.	Elongation in %	20 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	40 min. @ -40°C
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4507	EN	European Union	Steel, Sheet, Plate and Strip
1.4507	DIN	Germany	Steel, Sheet, Plate and Strip
X2CrNiMoCuN25-6-3	AFNOR NF	France	Steel
X2CrNiMoCuN25-6-3	DIN	Germany	Steel, Sheet, Strip and Plate
X2CrNiMoCuN25-6-3	UNI	Italy	Steel, Sheet, Strip and Plate
X2CrNiMoCuN25 6 3	EN	European Union	Steel and Tube
X3CrNiMoCuN25-7	AFNOR NF	France	Steel and Tube

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