

## Material: BS 10216-5 EN X 2 CrNiN 23 4

### 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:** Steel, Bar and Rods

Chemical Composition			Heat Treatment															
Carbon	C %	0.030 max.	Solution Annealing															
Silicon	Si %	1.000 max.																
Manganese	Mn %	2.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.015 max.																
Chromium	Cr %	22.000 - 24.000																
Nickel	Ni %	3.500 - 5.500																
Molybdenum	Mo %	0.100 - 0.600																
Nitrogen	N %	0.050 - 0.200																
Copper	Cu %	0.100 - 0.600																
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>600 - 820</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>400 min.</td> </tr> <tr> <td>Elongation in %</td> <td>25 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	600 - 820	Yield Strength in Mpa	400 min.	Elongation in %	25 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
1.4362	EN	European Union	Tube
1.4362	BS	British	Steel, Bar and Rod
1.4362	DIN	Germany	Steel, Bar and Rod
X2CrNiN23 4	AFNOR NF	France	Steel
X2CrNiN23 4	DIN	Germany	Steel, Bar and Rod
X2CrNiN 234	ISO	International	Steel, Bar, Rolling and Forging
X2CrNiN 23-4	UNI	Italy	Steel, Sheet, Plate and Strip

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