

# Material: BS 10216-5 EN 1.4462

## 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 %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	21.000 - 23.000		
Nickel	Ni %	4.500 - 6.500		
Molybdenum	Mo %	2.500 - 3.500		
Nitrogen	N %	0.100 - 0.220		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 640 - 880 Yield Strength in Mpa 450 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 40 min. @ -40°C	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4462	EN	European Union	Steel, Bar and Rod
1.4462	DIN	Germany	Steel, Bar and Rod
X2CrNiMoN22-5-3	AFNOR NF	France	Steel
X2CrNiMoN22-5-3	DIN	Germany	Steel, Bar and Rod
318 S 13	BS	British	Steel and Plate
SUS 329J 3L	JIS	Japan	Steel, Sheet, Plate and Strip
X2CrNiMoN22-5-3	UNI	Italy	Steel, Sheet, Plate and Strip

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)