

# Material: BS 10216-5 EN 1.4910

## 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 %	0.040 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	12.000 - 14.000		
Molybdenum	Mo %	2.000 - 3.000		
Nitrogen	N %	0.100 - 0.180		
Boron	B %	0.0015 - 0.0050		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      550 - 750 Yield Strength in Mpa      260 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      80 min. @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.491	EN	European Union	Steel and Flat
1.491	DIN	Germany	Steel and Flat
X3CrNiMoBN17-13-3	EN	European Union	Steel
1.491	BS	British	Steel
1.491	UNI	Italy	Steel
1.491	ONORM	Austria	Steel
1.491	AFNOR NF	France	Steel

**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)