



## Material - BS 10216-5 EN X2CrNiMoN22-5-3

### 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	BS	British	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.