

## Material: DIN 1.4462

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4462 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 %	21.000 - 23.000		
Molybdenum	Mo %	2.500 - 3.500		
Nickel	Ni %	4.500 - 6.500		
Nitrogen	N %	0.100 - 0.220		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 640 - 2730 Yield Strength in Mpa 445 min. Elongation in % 12 min. Reduction of Area in % 50 min. Hardness in HB 290 max. Impact in Joule 60 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4462	BS	British	Tube
1.4462	EN	European Union	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

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