

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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
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	

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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