

# Material: BS 10216-5 EN 1.4466

## 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 %	0.020 max.	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	21.000 - 23.000		
Molybdenum	Mo %	2.000 - 2.500		
Nitrogen	N %	0.100 - 0.160		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      540 - 740 Yield Strength in Mpa      260 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ -196°C	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4466	EN	European Union	Steel, Sheet, Plate and Strip
1.4466	DIN	Germany	Steel, Sheet, Plate and Strip
X1CrNiMoN25-22-2	UNI	Italy	Steel, Sheet, Plate and Strip
X1CrNiMoN25-22-2	AFNOR NF	France	Steel
X1CrNiMoN25-22-2	DIN	Germany	Steel, Plate, Sheet and Strip
Z2CND25-22Az	AFNOR NF	France	Steel
1.4466	MSZ	Hungary	Steel

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