

# Material: AFNOR NF X1CrNi25-21

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AFNOR NF X1CrNi25-21 Seamless Steel Tubes for Pressure Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Steel

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.250 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	24.000 - 26.000
Molybdenum	Mo %	0.200 max.
Nickel	Ni %	20.000 - 22.000
Nitrogen	N %	0.110 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	470 - 2100
Yield Strength in Mpa	180 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	220 max.
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4335	EN	European Union	Tube
1.4335	DIN	Germany	Steel
1.4335	DIN	Germany	Steel
X1CrNi25 21	DIN	Germany	Steel, Rolling and Forging
X1CrNi25 21	UNI	Italy	Steel, Sheet, Strip and Plate
X1CrNi25-20	AFNOR NF	France	Steel and Tube
Z1CN25-20	AFNOR NF	France	Steel and Tube

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