

Material: UNI X 1 NiCrMoCu 25-20-5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: UNI X 1 NiCrMoCu 25-20-5 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Sheet, Plate and Strip

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	19.000 - 21.000
Molybdenum	Mo %	4.000 - 5.000
Nickel	Ni %	24.000 - 26.000
Copper	Cu %	1.200 - 2.000
Nitrogen	N %	0.150 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 2100
Yield Strength in Mpa	220 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	230 max.
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4539	BS	British	Tube
1.4539	DIN	Germany	Steel, Bar and Rod
1.4539	EN	European Union	Steel, Bar and Rod
X1NiCrMoCu25-20-5	AFNOR NF	France	Steel
X1NiCrMoCu25-20-5	DIN	Germany	Steel, Bar and Rod
-	-	-	-
-	-	-	-

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