Material: AFNOR NF X1NiCrMoCu 31-27-4

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group: *Ferrous Stainless Steel Alloys*
Sub Group: *AFNOR NF X1NiCrMoCu 31-27-4 Seemless 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 %	0.700 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	26.000 - 28.000
Molybdenum	Mo %	3.000 - 4.000
Nickel	Ni %	30.000 - 32.000
Copper	Cu %	0.700 - 1.500
Nitrogen	N %	0.110 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 2100
Yield Strength in Mpa	215 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 1.4563	BS	British	Tube
1.4563	DIN	Germany	Steel, Plate and Strip
1.4563	EN	European Union	Steel, Plate and Strip
X1NiCrMoCu31-27-4	UNI	Italy	Steel, Plate and Strip
X1NiCrMoCu31-27-4	DIN	Germany	Steel, Bar and Rod
X1NiCrMoCu31 27 4	ISO	International	Steel, Bar and Rod
Z2NCDU31-27	AFNOR NF	France	Steel

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