

# Material: EN 1.4547

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN 1.4547 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 %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	19.500 - 20.500
Molybdenum	Mo %	6.000 - 7.000
Nickel	Ni %	17.500 - 18.500
Copper	Cu %	0.500 - 1.000
Nitrogen	N %	0.180 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 2100
Yield Strength in Mpa	300 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	260 max.
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
0216-5 EN 1.4547	BS	British	Tube
1.4547	DIN	Germany	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	AFNOR NF	France	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	UNI	Italy	Steel, Sheet, Strip and Plate
X1CrNiMoCuN20-18-7	DIN	Germany	Steel, Sheet, Strip and Plate
-	-	-	-
-	-	-	-

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