

# 1.4406

	%C	%Si	%Mn	%P	%S	%Cr	&Mo	%Ni	%N
<b>X2CrNiMoN17-11-12</b>	-	-	-	-	-	16.15	2.00	10.00	0.12
	≤0.30	≤1.00	≤2.00	≤0.045	≤0.030	18.5	2.50	12.50	0.22

## STEEL PROPERTIES

1.4406 Grades is austenitic steel suitable for the fabrication of many products. Due to its molybdenum content, it can be used in applications that require increased corrosion resistance. The nitrogen content adds additional resistance to sensitization.

## EQUIVALENT GRADES

EN 10088-3	1.4406	X2CrNiMoN17-11-2
AISI	316LN	
AFNOR	Z3CND17-11Az	
BS	316S61	
JIS	SUS316LN	
UNS	S31653	

## APPLICATIONS

1.4406 Grades are used in Chemical processing, Pulp & paper industry, pharmaceutical applications, Applications with high magnetic fields, Surgical instruments

## HEAT TREATMENT

1.4406 is offered in solution treated condition

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**Mechanical properties at room temperature for 1.4406 as per EN 10088-1 in the usual delivery condition**

Flat products with thickness a	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength MPa. min.	Tensile Strength R <sub>m</sub> MPa.	A % Min. Long Products
≤160	+AT	260	400	600-830	25

**Physical properties of 1.4406 as per EN 10088-1**

Density Kg/dm <sup>2</sup>	Mean Coefficient of thermal expansion 10 <sup>-6</sup> k <sup>-1</sup> Between 20°C and (°C)					Thermal conductivity W/(m.K)	Specific Heat capacity kJ(kg.K)	Electrical resistivity Ωmm <sup>2</sup> /m At 20°C	Magnetizability
	100°C	200°C	300°C	400°C	500°C				
8.0	16.0	16.5	17.0	17.5	18.0	15	-	0.75	No