

# 1.4303

	%C	%Si	%Mn	%P	%S	%Cr	%N	%Ni
<b>X4CrNi18-12</b>	-	-	-	-	-	17.00	-	11.00
	≤0.06	≤1.00	≤2.00	≤0.045	≤0.030	19.00	≤0.10	13.00

## STEEL PROPERTIES

1.4303 is an austenitic stainless steel with good corrosion resistance due to the higher nickel content of 11-13 %.

## EQUIVALENT GRADES

EN 10088-3	1.4303	X 4 CrNi18 12
AISI	305	
AFNOR	Z 5 CN 18.12	
JIS	SUS 305	
UNS	S30500	

## APPLICATIONS

1.4303 field of application contains chemical industry, mechanical engineering, electronic equipment.

## HEAT TREATMENT

1.4303 is offered in soft annealed solution.

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**Mechanical properties at room temperature for 1.4303 as per EN 10085-1 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
a ≤ 160	+AT	215	190	500-700	45

**Physical properties of 1.4303 as per EN 10085-3**

Density Kg/dm <sup>3</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				
7.9	16.0	16.5	17.0	17.5	18.0	15	-	0.73	No