

1.4310

	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni	%Mo
X10CrNi18-8	0.05	-	-	-	-		16.00	6.00	
	0.15	≤2.00	≤2.00	≤0.045	≤0.015	≤0.10	19.00	9.50	≤0.80

STEEL PROPERTIES

1.4310 is austenitic stainless steel with good corrosion resistance and weldability, as well as high strength and ductility, it is widely used in the production of high strength stainless steel springs.

EQUIVALENT GRADES

EN 10088-3	1.4310	X10CrNi18-8
AISI	301	
AFNOR	Z 12 CN 17.07	
BTS	301 S 21	
JIS	SUS 301	
UNS	S30100	

APPLICATIONS

1.4310 leaps up to 300 °C temperature, knives and high-strength sheets for the automotive industry.

HEAT TREATMENT

1.4310 is offered in solution treated condition

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Mechanical properties at room temperature for 1.4310 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 _m MPa.	A % Min. Long Products
a ≤ 40	+AT	230	195	550 to 750	40

Physical properties of 1.4310 as per EN 10088-3

Density Kg/dm ³	Mean Coefficient of thermal expansion 10 ⁻⁶ k ⁻¹ Between 20°C and (°C)					Thermal conductivity W/(m.K)	Specific Heat capacity kJ(kg.K)	Electrical resistivity Ωmm ² /m At 20°C	Magnetizability
	100°C	200°C	300°C	400°C	500°C				
7.9	16.0	17.0	17.0	18.0	18.0	15	-	0.73	No