

1.4307

X2CrNi18-9	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N
	-	-	-	-	-	17.5	8.00	-
	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	19.5	10.5	≤0.10

STEEL PROPERTIES

1.4307 is a corrosion resistant austenitic stainless steel with good formability. The steel is modified for machining and is available in a wide range of profiles.

EQUIVALENT GRADES

EN 10088-3	1.4307	X2CrNi18-9
AISI	304 L	
AFNOR	CLC18.9. L	
BTS	304 S 11	
JIS	SUS 304L	

APPLICATIONS

1.4307 is often used for details within building and construction, machining industry.

HEAT TREATMENT

1.4307 is offered in solution treated condition

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Mechanical properties at room temperature for 1.4307 as per EN 10088-3 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 ≤ 160	+AT	215	175	500 to 700	45

Physical properties of 1.4307 as per EN 10088-1

Density Kg/dm ²	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	16.5	17.0	18.0	18.0	15	-	0.73	No