

1.4435

X2CrNiMo18–14–3	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%N	%Mo
	-	-	-	-	-	17.0	12.50	-	2.50
	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	19.0	15.00	≤0.10	3.00

STEEL PROPERTIES

1.4435 is an acid-resisting austenitic CrNiMo-Steel with 18% Cr, approx. 14% Ni and at least 2.5% Mo. Due to the increased Mo-content, this material has a significantly improved corrosion resistance.

EQUIVALENT GRADES

EN 10088-3	1.4435	X2CrNiMo18–14–3
AISI	316L	
AFNOR	Z3CND17-12-03	
BS	316S11	
JIS	SUS316L	
UNS	S31603	

APPLICATIONS

1.4435 is used in Construction encasement, doors, windows and armatures, offshore modules, cisterns and pipes for chemical tanks.

HEAT TREATMENT

1.4435 is offered in solution treated condition.

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Mechanical properties at room temperature for 1.4435 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	200	500 to 700	40

Physical properties of 1.4435 as per EN 10088-1

Density Kg/dm ²	Linear Expansion Coefficient 10 ⁻⁶ k ⁻¹ Between 20°C and (°C)					Thermal conductivity W/(m.K) 20°	Specific Heat capacity kJ(kg.K) 20°	Electrical resistivity 2 /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