1.4439

	%C	%Si	%Mn	%P	%S	%Cr	%Mo	%Ni	%N
X2CrNiMoN17-13-5	-	-	-	-	-	16.5	4.00	12.50	0.12
	≤0.030	≤1.00	≤2.00	≤0.045	≤0.015	18.5	5.00	14.50	0.22

STEEL PROPERTIES

1.4439 is a derivative and better austenitic variant of the 316 and 317 steel grades, having higher Nickel, Molybdenum and Nitrogen content, which significantly increases the product's resistance to pitting and crevice corrosion in Cl environments.

EQUIVALENT GRADES

EN 10088-3	1.4439	X2CrNiMoN17–13–5
AISI	317LMN	
AFNOR	Z3CND18-14-05Az	
JIS	SUS317J1	
UNS	S31726	

APPLICATIONS

1.4439 is used for the production of special pumps, installations, radiators, apparatus, heat exchangers or tanks for chemicals - sulfuric, formic, nitric, acetic or sodium hydroxide in the form of bars, forgings, sheets and pipes.

HEAT TREATMENT

1.4439 is offered in solution treated condition.

1.4439

Mechanical properties at room temperature for 1.4439 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 ≤ 160	+AT	250	280	580 to 800	35

Physical properties of 1.4439 as per EN 10088-3

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	14			
8.0	16.0	16.5	17.0	17.5	18.0		-	0.85	No