



**MATERIAL DATA SHEET 1.4301 (X5CRNI18-10)**

DESCRIPTION: The stainless austenitic nickel-chrome steel 1.4301 features good corrosion resistance (especially in natural, environmental media and in absence of significant chlorine- and salt concentration and marine water) and weldability. The area of application regarding acid requires specific testing. In a welded condition however, 1.4301 is not resistant to intergranular corrosion. The material is suitable for polishing and deep drawing.

CHEMICAL COMPOSITION ACCORDING TO DIN EN 17455 / 17456								
%	C	Si	Mn	P	S	N	Cr	Ni
	0,07 max.	1,0 max.	2,0 max.	0,045 max.	0,015 max.	0,11 max.	17,0- 19,5	8,0- 10,5

MECHANICAL PROPERTIES ACCORDING TO DIN EN 17455 / 17456					
Yield Point N/mm <sup>2</sup> min.		Tensile Strength		Ultimate Strain	
0,2%	1,0 %	Rm N/mm <sup>2</sup>		A1 % min (longitudinally)	A1 % min (diagonally)
195	230	500 - 700		40	35

USE: (depending on the respective- and specific operating conditions): chemical-, petrochemical-, crude oil-, construction-, automotive- and food industry.

NO RESPONSIBILITY IS TAKEN FOR THE CORRECTNESS OF THIS INFORMATION