



# 1.4435

**CONFIDENTIAL**

## CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	N	Mo
0.03 max	1.00 max	2.00 max	0.045 max	0.03 max	17-19	12-15	0.10 max	2.5-3

## CHARACTERISTICS AND AREAS OF APPLICATION

Austenitic, cold-forming hardenable steel with good resistance to intergranular corrosion and chloride pitting. It is used in environments with moderate chloride concentrations, in the agri-food sector and in acidic chemical environments.

## INDICATIVE MECHANICAL PROPERTIES

[ACCORDING TO EN10088-3 AT HARDENED STATE - ROOM TEMPERATURE]

Metallurgical condition	Rm [N/mm <sup>2</sup> ]	Rp 0.2 [N/mm <sup>2</sup> ]	A5 [%] min
Annealed Solution	500-850	235 min	30

## WELDABILITY

This type of steel can be welded with no difficulty. Post-welding treatment is not necessary

## CORROSION RESISTANCE

Excellent in the atmosphere and in a wide variety of salts, organic acids and foodstuffs, fair in relation to reducing acids weak solutions, superior when compared to other austenitic steels not containing Mo, with halides and sea water. It is practically insensitive to intercrystalline corrosion.

## HEAT TREATMENT

**ANNEALING SOLUTION** > 1050-1100°C/water

[\*] The information on this sheet is of a general nature and reflects the contents of the technical regulations. For any specific request or clarification, please contact Eure inox Quality Department.