



# 1.4401 - 1.4404

**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	16.5-18.5	10-13	0.10 max	2-2.5

## CHARACTERISTICS AND AREAS OF APPLICATION

Austenitic, non-hardening, cold-forming steel. It has good resistance to intergranular corrosion and chloride pitting (when properly solubilised).

This steel has improved processing features.

Used in the textile, paper, wine and food industries and shipbuilding, it is particularly suitable for welding parts due to its resistance to intergranular corrosion.

## 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
Solution Annealed	500-830	200 min	30

## WELDABILITY

This steel grade 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 food substances, fairly good with weak solutions of reducing acids, better than other austenitic steels not containing Mo with halides and sea water. 1.4404 is practically insensitive to intergranular corrosion thanks to its minimum carbon content.

## HEAT TREATMENT

**SOLUTION ANNEALING** > 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.