



1.4306

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	Cu	Altri
0.03 max	1.00 max	2.00 max	0.045 max	0.015 max	18-20	10-12	-	-

CHARACTERISTICS AND AREAS OF APPLICATION

1.4306 austenitic grade is considered more highly alloyed compared to 1.4307. The petrochemical industry, automotive industry, electronic equipment, chemical applications, food industry and instruments industry are its different areas of applications.

INDICATIVE MECHANICAL PROPERTIES

[ACCORDING TO EN10088-3 IN THE HARDENED STATE - ROOM TEMPERATURE]

Metallurgical condition	Rm [N/mm ²]	Rp 0.2 [N/mm ²]	A5 [%] min	Indic. hardness [HB] max
Solution Annealing	460-680	180	45 (Longitudinal)	215

WELDABILITY

The weldability of 1.4306 with or without the use of the metal material is good. In addition, heat treatment after welding is not required.

CORROSION RESISTANCE

Due to the low carbon content, there is no tendency regarding the formation of chromium carbides. Therefore, the corrosion resistance is higher than grades with higher carbon content. In addition, 1.4306 shows higher corrosion resistance compared to 1.4307 because of the high content of nickel and slightly higher content of chromium. It is resistant to water, organic and inorganic compounds, low chloride sterilizing solutions, and so forth.

HEAT TREATMENT

SOLUTION ANNEALING > 1000-1100 °C / rapid cooling by water or air

[*] 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.