



1.4310/AISI 302

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	Cu	Altri
0.05-0.15	2.00 max	2.00 max	0.045 max	0.015 max	16-19	6-9.5	-	-

CHARACTERISTICS AND AREAS OF APPLICATION

Austenitic grade of stainless steel with higher carbon compared to 1.4307.

1.4310 is used in the manufacturing of fittings, flanges, bolts, valves, pump and compressor shafts, dies, cables and many other products.

In addition, this austenitic grade is used specifically and extensively in the manufacture of springs and where greater strength is required after cold deformation process.

INDICATIVE MECHANICAL PROPERTIES

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

Metallurgical condition	Rm [N/mm ²]	Rp 0.2 [N/mm ²]	A5 [%] min	Indic. hardness [HB] max
Solution Annealing	500-750	195	40 (Longitudinale)	230

WELDABILITY

1.4310 has very acceptable weldability, preheating of the product is not required. However, after fixing the components, it is advisable to carry out the supersaturation process for protection against intercrystalline corrosion.

CORROSION RESISTANCE

1.4310 shows good general corrosion resistance behavior at both low and high temperatures even in chemical and industrial food environments. However, specific intergranular corrosion resistance in delivery and sensitized conditions are not good.

HEAT TREATMENT

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

[*] 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.