



1.4878/AISI 321

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	Cu	Altri
0.1 max	1.00 max	2.00 max	0.045 max	0.015 max	17-19	9-12	-	-

CHARACTERISTICS AND AREAS OF APPLICATION

1.4878 heat-resistant austenitic stainless steel is used for construction applications while the maximum temperature resistance reaches up to 850°C. It can also be customized due to the effect of a sulfur gas environment.

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	500-700	190	40	215

WELDABILITY

1.4878 is defined as appropriate for laser beam welding. In addition, TIG welding, arch (E) weldin, and solid wire for MAG welding are other standard welding procedures for 1.4878.

CORROSION RESISTANCE

1.4878 features high corrosion resistance.

HEAT TREATMENT

SOLUTION ANNEALING > 1050-1150 °C / rapid 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.