



1.4441/AISI 316L ESR

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	Cu	Altri
0.03 max	1.00 max	2.00 max	0.025 max	0.01 max	17-19	13-15.5	0.5 max	N: 0.1 max

CHARACTERISTICS AND AREAS OF APPLICATION

Austenitic stainless steel 1.4441 is technologically advanced for some medical applications.

1.4441 features exceptional microstructural refinement and remarkable fatigue resistance due to its remelting process.

Biocompatibility, high corrosion resistance and antimagnetic are only some of its other features.

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	490-690	-	40	215
Cold Processed	860-1100	-	12	-

WELDABILITY

1.4441 is weldable, without any specific post-processing phase.

CORROSION RESISTANCE

1.4441 shows high corrosion resistance due to its optimized chemical composition.

HEAT TREATMENT

SOLUTION ANNEALING > 1050-1100 °C / rapid water 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.