



1.4106

SPECIALTY

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Mo
0.03 max	2.00 max	1.00 max	0.04 max	0.25-0.35	17-19	1.00-2.50

CHARACTERISTICS AND AREAS OF APPLICATION

Ferromagnetic stainless steel with low residual magnetic hysteresis, it optimises low coercive force values of Hc: 200 A/m max and a relative magnetic permeability of μ_r : 1100 - 2000 max (depending on the chemical composition and the quality of the heat treatment performed) without deteriorating inter-crystalline corrosion resistance and without compromising resistance against pitting phenomena.

Due to its chemical composition, characterised by high concentrations of sulphur, this steel has high processing features, high corrosion resistance (higher compared to 1.4105 and 1.05Si) and magnetic properties suitable for the production of solenoid valve cores.

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
Annealed	430-800	240	10	-

CORROSION RESISTANCE

This steel grade offers good corrosion resistance in acid and chlorinated environments.

HEAT TREATMENT

ANNEALING > 750-850°C/slow 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.