



# 1.4106/AISI M106

**CONFIDENTIAL**

## CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Mo	Cu	Ni
0.03 max	1.20-1.60	0.60 max	0.04 max	0.25-0.35	17.50-18.50	1.50-2.00	0.30 max	0.50 max

## CHARACTERISTICS AND AREAS OF APPLICATION

Ferromagnetic stainless steel with low residual magnetic hysteresis, it optimises low coercive force values of  $H_c$ : 200 A/m max and a relative magnetic permeability of  $\mu_r$ : 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.

## CORROSION RESISTANCE

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

[\*] 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.