



# 1.4016/AISI 430

**CONFIDENTIAL**

## CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr
0.08 max	1.00 max	1.00 max	0.040 max	0.030 max	16-18

## CHARACTERISTICS AND AREAS OF APPLICATION

Corrosion and heat resistant ferritic stainless steel, hardenable only by cold deformation. Used for the manufacture of components in the household and domestic appliances, automotive and furniture accessories fields, nuts and bolts with no high risk of corrosion.

## INDICATIVE MECHANICAL PROPERTIES

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

Metallurgical condition	Rm [N/mm <sup>2</sup> ]	Rp 0.2 [N/mm <sup>2</sup> ]	A5 [%] min	Indic. hardness [HB] max
Annealed	400-700	240	15	-

## WELDABILITY

Weldability is fair, preheating to 150°-200°C is advisable before welding to avoid brittleness at melting point.

## CORROSION RESISTANCE

Good in mid- corrosive conditions (atmosphere, especially if cleaned frequently; fresh water; 90% nitric acid when cold, 10% when hot; organic compounds petroleum and phenol; household detergents, foodstuffs, weak organic acids, various alkalis).

## HEAT TREATMENT

### SFERODIZED ANNEALING

> 780°-820°C / air

[\*] 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.