



1.4104/AISI 430F

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

| C | Si | Mn | P | S | Cr | Mo |
|-----------|----------|----------|-----------|-----------|-----------|-----------|
| 0.10-0.17 | 1.00 max | 1.50 max | 0.040 max | 0.15-0.35 | 15.5-17.5 | 0.20-0.60 |

CHARACTERISTICS AND AREAS OF APPLICATION

High-carbon, hardenable martensitic steel with high processing features in chip removal machinery (automatic steel).

Used for mass production of turned screws and bolts, spindles, pins, for interior and exterior architectural decorations, kitchen utensils, plant parts for the nitric acid and petroleum industries.

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 |
|-------------------------|-------------------------|-----------------------------|------------|--------------------------|
| Annealed | ≤ 800 | 250 min | - | - |
| Quenched QT800 | 650-930 | 500 min | 9 | - |

WELDABILITY

Normally not used in processes involving welding.

CORROSION RESISTANCE

Good in mid-corrosive conditions.

The addition of S causes a slight decrease in corrosion resistance.

HEAT TREATMENT

- ANNEALING** > 780-820°C/slow cooling
- HARDENING** > 950-1030°C/oil-air
- TEMPERING** > 550-650°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.