



# 1.4029

**CONFIDENTIAL**

## CHEMICAL COMPOSITION [% weight]

| C         | Si       | Mn       | P         | S         | Cr      | Mo       |
|-----------|----------|----------|-----------|-----------|---------|----------|
| 0.25-0.32 | 1.00 max | 1.50 max | 0.040 max | 0.15-0.25 | 12-13.5 | 0.60 max |

## CHARACTERISTICS AND AREAS OF APPLICATION

Martensitic stainless steel, hardenable and resistant to corrosion and exposure to high temperature sources. Sulphur is added to improve machinability in machine tools. Used for pump shafts, flanges and fittings. Parts for the electronics and petrochemical industries.

## INDICATIVE MECHANICAL PROPERTIES

[ACCORDING TO EN10088-3 IN THE 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                | ≤ 900                   | -                           | -          | 280                      |
| Quenched QT850          | 850-1100                | 650 min                     | 10         | -                        |

## WELDABILITY

It is not recommended to weld this material; if it is unavoidable, it should be heated to 100°-300° C and tempered after welding.

## CORROSION RESISTANCE

The sulphur restricts its use to mildly aggressive environments (oils, greases, cold detergents, petrol, petroleum).

## HEAT TREATMENT

- ANNEALING** > 750-800°C/raffreddamento lento
- HARDENING** > 950-1030°C/olio-aria
- TEMPERING** > 600-650°C/aria

[\*] 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.