

## DELIVERY CONDITION

Annealed.

## PROPERTIES AND MOST COMMON APPLICATIONS

Martensitic stainless steels with 12 % chromium.

Resistant to the atmospheric corrosion, fresh water, mine water, steam and other similar corrosive agents. It is magnetic.

Its most common applications are for surgical instruments, gauges, pump elements, shafts and steel balls. In general, pieces that must be resistant to weak corrosive agents at room temperature.

## APPLICABLE STANDARD

EN 10088-1

## CHEMICAL COMPOSITION

|     | C    | Mn   | Si   | P     | S     | Cr    |
|-----|------|------|------|-------|-------|-------|
| MIN | 0,26 |      |      |       |       | 12,00 |
| MAX | 0,35 | 1,50 | 1,00 | 0,040 | 0,030 | 14,00 |

## HEAT TREATMENTS - APPROXIMATE TEMPERATURES

| Annealed °C | Quenched °C           | Tempered °C      |
|-------------|-----------------------|------------------|
| 780 -850    | 950 - 1000<br>Air oil | 600 - 700<br>Air |

## MECHANICAL PROPERTIES

Mechanical properties at room temperature in annealed condition.

| Dimensions | Hardness<br>HB |
|------------|----------------|
| mm.        | Max.           |
| All range  | 245            |

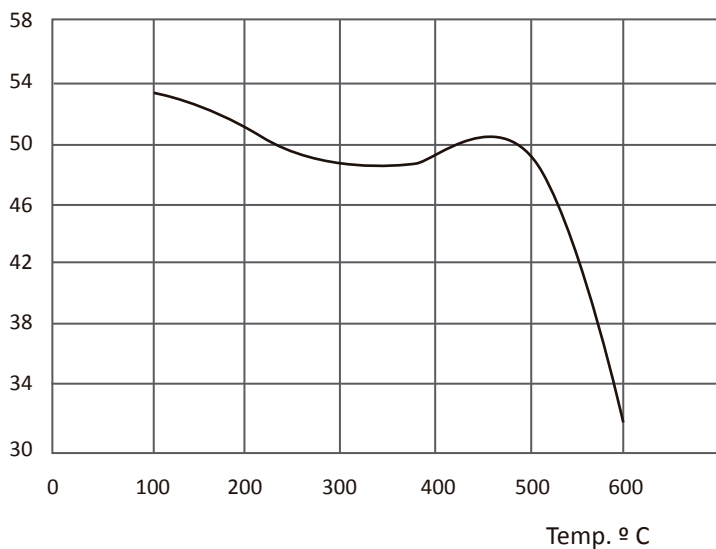
## APPROXIMATE EQUIVALENT STANDARDS

| EN      | DIN     | Nº STAND | UNE   | STAS | AFNOR  | BS     | UNI     | AISI/SAE | GOST  |
|---------|---------|----------|-------|------|--------|--------|---------|----------|-------|
| X30Cr13 | X30Cr13 | 1.4028   | F3403 |      | Z30C13 | 420S37 | X30Cr13 | 420      | 30x13 |

## COLOUR CODE



## TEMPERING DIAGRAM



Ø 20 hardness: 1020 °C in oil + Rev.