

## DELIVERY CONDITIONS

Annealed.

## PROPERTIES AND MOST COMMON APPLICATIONS

Widely used alloyed steel. Good tensile strength and tenacity can be obtained if consumed in annealed condition with ulterior quenching.

Very suitable for induction hardening (approximate hardness of 56 HRC).

## DIMENSIONS IN STOCK MM.



Annealed: 16-610

## APPLICABLE STANDARD

EN 10083-3

## CHEMICAL COMPOSITION

|     | C    | Mn   | Si   | P     | S     | Cr   | Mo   |
|-----|------|------|------|-------|-------|------|------|
| MIN | 0,38 | 0,60 |      |       |       | 0,90 | 0,15 |
| MAX | 0,45 | 0,90 | 0,40 | 0,025 | 0,035 | 1,20 | 0,30 |

## HEAT TREATMENTS - APPROXIMATE TEMPERATURES

| Annealed °C | Quenched °C      | Tempered °C |
|-------------|------------------|-------------|
| 680-720     | 820 - 860<br>Oil | 540-680     |

## MECHANICAL PROPERTIES

Mechanical properties at room temperature in annealed condition.

Maximun hardness : 241 HB.

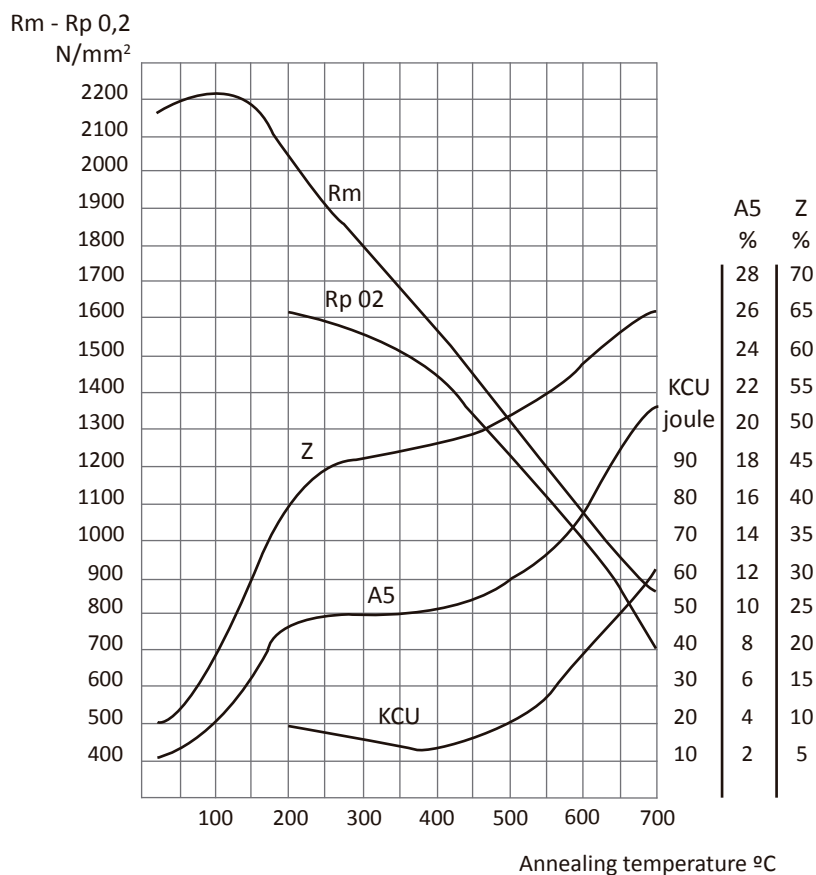
## APPROXIMATE EQUIVALENT STANDARDS

| EN      | DIN     | Nº STAND | UNE  | STAS      | AFNOR | BS     | UNI     | AISI/SAE | GOST         |
|---------|---------|----------|------|-----------|-------|--------|---------|----------|--------------|
| 42CrMo4 | 42CrMo4 | 1.7225   | F152 | 42MoCr11q | 42CD4 | 708M40 | 42CrMo4 | 4140     | 42xM<br>38XM |

## COLOUR CODE

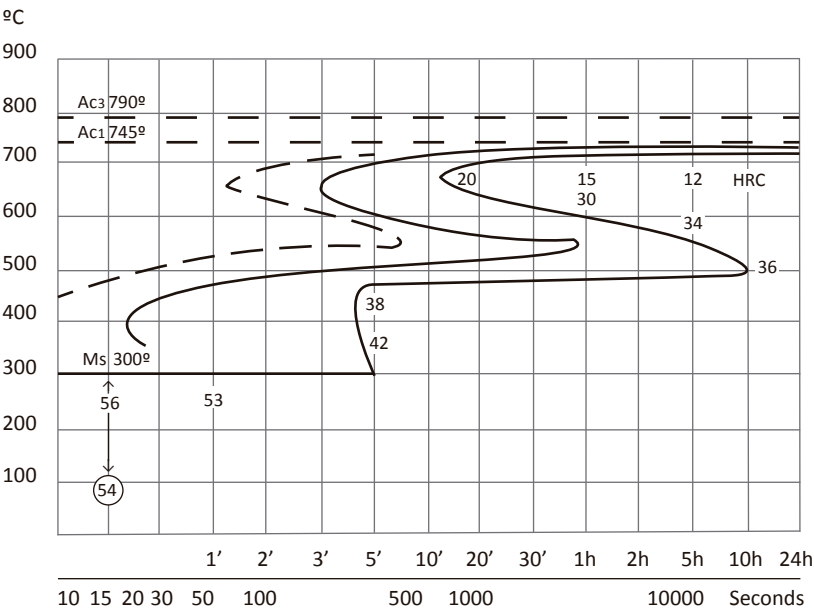


## TEMPERING DIAGRAM



Treatment: in Ø 11 mm. Hardness: 850°C oil. Annealing for 2 hours.

TTT DIAGRAM



Square: 10 mm.      Austenización: 850 ° C      Time