

**DELIVERY CONDITION**

As rolled.

**PROPERTIES AND MOST COMMON APPLICATIONS**

Carbon steel with a medium tensile strength and a good weldability and tenacity.  
Its most common applications are for bolts, chains, railway shafts and connection rods.

**DIMENSIONS IN STOCK MM.**

20-100

**APPLICABLE STANDARD**

EN 10025-2

**CHEMICAL COMPOSITION**

|     | C    | Mn   | Si   | P     | S     | Cr   | Mo   | Ni   | V     | OTHERS                          |
|-----|------|------|------|-------|-------|------|------|------|-------|---------------------------------|
| MIN | 0,18 | 0,80 | 0,15 |       |       |      |      |      |       | Nb. Max. 0,020<br>N. Max. 0,012 |
| MAX | 0,23 | 1,15 | 0,30 | 0,030 | 0,030 | 0,30 | 0,12 | 0,40 | 0,030 | Al. Max. 0,050<br>Cu. Max. 0,40 |

**MECHANICAL PROPERTIES**

Mechanical properties at room temperature in standardised condition (+N).

| Dimensions |       | Re<br>(N/mm <sup>2</sup> ) | Rm<br>(N/mm <sup>2</sup> ) |      | A<br>(%) | Guidance<br>hardness |
|------------|-------|----------------------------|----------------------------|------|----------|----------------------|
| mm.        |       | min.                       | min.                       | máx. | min.     | HB                   |
| > 16       | ≤ 100 | 295                        | 470                        | 620  | 21       | 140-187              |

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## APPROXIMATE EQUIVALENT STANDARDS

| EN | DIN | Nº STAND | UNE | STAS | AFNOR | BS | UNI | AISI/SAE | GOST |
|----|-----|----------|-----|------|-------|----|-----|----------|------|
|    | C21 | 1.0432   |     |      |       |    |     | A105     |      |

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## COLOUR CODE

