

## 100Cr6

High-Carbon Chromium Bearing Steel

W.-Nr. 1.3505

AISI/SAE 52100

EN ISO 683-17

Delivery +A (yumuşak tavlı)

Density 7.81 g/cm³

## CHEMICAL COMPOSITION

| ELEMENT | WEIGHT %  |
|---------|-----------|
| C       | 0.93–1.05 |
| Si      | 0.15–0.35 |
| Mn      | 0.25–0.45 |
| P       | ≤ 0.025   |
| S       | ≤ 0.015   |
| Cr      | 1.35–1.60 |

## MECHANICAL PROPERTIES (+A

(YUMUŞAK/KÜRESELLEŞTİRME TAVLI – TESLİM HALİ). SERTLEŞTİRME SONRASI 60–66 HRC.)

| SECTION (MM) | R <sub>EH</sub> MIN<br>MPA | R <sub>M</sub><br>MPA | A MIN<br>% |
|--------------|----------------------------|-----------------------|------------|
| +A · d ≤ 100 | –                          | 590–800               | –          |

## INTERNATIONAL EQUIVALENTS

|              |              |            |               |
|--------------|--------------|------------|---------------|
| EN           | 100Cr6       | JIS        | SUJ2          |
| W.-Nr. (DIN) | 1.3505       | GOST       | ШХ15 (ShKh15) |
| AISI/SAE     | 52100        | BS (UK)    | 534A99 (EN31) |
| ASTM         | A295 (52100) | GB (China) | GCr15         |

## TYPICAL APPLICATIONS

- Ball and roller bearings
- Bearing rings and rolling elements
- Forged grinding balls
- Precision shafts and pinions
- Gauges and die components
- Wear-resistant bushings and rollers

Values are given per the relevant standard and are for information only; they do not replace the order specification. They may vary with section size, delivery condition and heat treatment. Binding values are those of the order confirmation and inspection document (EN 10204 3.1).

## Quotation and stock

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[aktifcelik.com/en/celik-kalitesi/100cr6](https://aktifcelik.com/en/celik-kalitesi/100cr6)