STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

C60

High-Carbon Steel for Quenching and Tempering

W.-Nr. **1.0601** | AISI/SAE ≈ **1060** | EN 10083-2 | Delivery **+A, +N, +QT** | Density **7.85 g/cm³**

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.57–0.65
Si	≤ 0.40
Mn	0.60–0.90
P	≤ 0.045 (C60E/C60R ≤ 0.030)
S	≤ 0.045 (C60E ≤ 0.035; C60R 0.020–0.040)
Cr	≤ 0.40
Mo	≤ 0.10
Ni	≤ 0.40
Cr+Mo+Ni	≤ 0.63

MECHANICAL PROPERTIES (+QT)

SECTION (MM)	R_{EH} MIN MPA	R_M MPA	A MIN %
d ≤ 16	580	850–1000	11
16 < d ≤ 40	520	800–950	13
40 < d ≤ 100	450	750–900	14

Hardness Note: +QT: Rm 750–1000 MPa ≈ 220–295 HB · +N: Rm ≥ 650–710 MPa · HB values are an approximate conversion per EN ISO 18265; EN 10083-2 specifies strength, not hardness, for +N/+QT.

INTERNATIONAL EQUIVALENTS

EN	C60	**AISI/SAE**	≈ 1060
W.-Nr. (DIN)	1.0601	**JIS**	≈ S58C
EN (E / R)	C60E 1.1221 / C60R 1.1223	**GOST**	≈ 60 (сталь 60)
DIN 17200 (old)	Ck60 (= C60E)	**GB (China)**	≈ 60

TYPICAL APPLICATIONS

- Wear-resistant parts such as rollers, cams and guides
- Simple, low-stressed springs and spring washers
- Wear parts for agricultural and earth-moving machinery
- Shafts and spindles with induction-hardened bearing surfaces
- Coupling and clutch components
- Hand tools and clamping elements

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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