

34CrNiMo6

Nickel-Chromium-Molybdenum Q&T Steel

W.-Nr. 1.6582

AISI/SAE ≈ 4340

EN 10083-3

Delivery +A, +QT

Density 7.85 g/cm³

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.30–0.38
Si	≤ 0.40
Mn	0.50–0.80
P	≤ 0.025
S	≤ 0.035
Cr	1.30–1.70
Mo	0.15–0.30
Ni	1.30–1.70

MECHANICAL PROPERTIES (+QT)

SECTION (MM)	R _{EH} MIN MPA	R _M MPA	A MIN %
d ≤ 16	1000	1200–1400	9
16 < d ≤ 40	900	1100–1300	10
40 < d ≤ 100	800	1000–1200	11
100 < d ≤ 160	700	900–1100	12
160 < d ≤ 250	600	800–950	13

INTERNATIONAL EQUIVALENTS

EN	34CrNiMo6	JIS	SNCM447
W.-Nr. (DIN)	1.6582	GOST	≈ 38XH3MA (38KhN3MA)
AISI/SAE	≈ 4340 / 4337	BS 970 (UK)	817M40 (EN24)
ASTM	A29 (4340)	GB (China)	≈ 40CrNiMoA

TYPICAL APPLICATIONS

- Heavy-duty shafts and large-diameter shafting
- Turbine and generator shafts
- Aircraft landing gear and aerospace parts
- Large gears and pinions
- High-strength bolts and studs
- Heavy-industry forgings

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

info@aktifcelik.com · +90 216 606 24 60

[aktifcelik.com/en/celik-kalitesi/34crnimo6](mailto:info@aktifcelik.com)