STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

17NiCrMo6-4

Nickel-Chromium-Molybdenum Case Hardening Steel (EN ISO 683-3)

W.-Nr. **1.6566** | EN ISO 683-3

Delivery **+A, +TH, +FP** | Density **7.85 g/cm³**

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.14–0.20
Si	≤ 0.40
Mn	0.60–0.90
P	≤ 0.025
S	≤ 0.035
Cr	0.80–1.10
Mo	0.15–0.25
Ni	1.20–1.50

HARDNESS BY DELIVERY CONDITION

DELIVERY CONDITION	HB
+A	≤ 229 HB
+TH	179–229 HB
+FP	149–201 HB

Hardness Note: +A: ≤ 229 HB · +TH: 179–229 HB · +FP: 149–201 HB (EN ISO 683-3) · Carburized and hardened surface: typically 58–62 HRC, process-dependent

INTERNATIONAL EQUIVALENTS

EN	17NiCrMo6-4
W.-Nr. (DIN)	1.6566
UNI 7846 (old, Italy)	≈ 18NiCrMo5
EN (S variant)	17NiCrMoS6-4 (1.6569)
BS 970 (UK)	≈ 815M17 (EN353)

TYPICAL APPLICATIONS

- Medium and heavily loaded gears and pinions
- Gearbox and differential parts
- Gear shafts and splined shafts
- Power-transmission parts for construction and agricultural machinery
- Impact-loaded pins, bushings and rollers
- General case-hardened machine parts

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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