STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

18CrNiMo7-6

Ni-Cr-Mo Case-Hardening Steel

W.-Nr. **1.6587** | EN ISO 683-3

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

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.15–0.21
Si	≤ 0.40
Mn	0.50–0.90
P	≤ 0.025
S	≤ 0.035
Cr	1.50–1.80
Mo	0.25–0.35
Ni	1.40–1.70

HARDNESS BY DELIVERY CONDITION

DELIVERY CONDITION	HB
+A	≤ 229 HB
+FP	159–207 HB

Hardness Note: +A: ≤ 229 HB · +FP: 159–207 HB (EN ISO 683-3) · Carburized and hardened surface: typically 58–62 HRC, process-dependent

INTERNATIONAL EQUIVALENTS

EN	18CrNiMo7-6
W.-Nr. (DIN)	1.6587
DIN 17210 (old)	17CrNiMo6

TYPICAL APPLICATIONS

- Large, heavily loaded gears and pinions
- Industrial and wind-turbine gearbox components
- Gear shafts and ring gears
- Transmissions for mining and construction machinery
- Carburized shafts, splines and couplings
- Heavy-duty carburized pins and bushes

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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