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## Chemical composition

in %

С	Si	Mn	Ni	Cr ·	s
0,16-0,21	0,10-0,35	0,60-0,90	1,20-1,50	0,90-1,20	0,020-0,040

#### Steel properties

Case-hardening steel for common use, offering good characteristics under case and high impact resistance. Good impact strength at low temperatures.

#### **Applications**

Pinions for gearbox, general mechanics, chain pins.

# **Mechanical properties**

#### condition as supplied

Annealed for hardness: ≤ 197 HB

### achievable on case-hardened parts

Ø	U.T.S.	Y.S. 0.2%	Elongation	KCU at 20 °C
mm	MPa	MPa	%	J/cm²
d ≤ 16	1100-1400	≥ 800	≥ 9	≥ 60
16 < d ≤ 40	850-1150	≥ 620	≥ 10	≥ 70
40 < d ≤ 100	650- 950	≥ 470	≥ 11	≥ 70

# Size range

available or from European central stock, short delivery time

#### Round bars

Product designation	Ø (min. → max.) mm		
Rolled or forged round bars, annealed Length: 4-6 m	10 → 450		

#### Flat bars

Product designation	Width (min. → max.) mm	Thickness (min. → max.) mm
Rolled or forged flat bars, annealed Length: 3.6-4 m	30 → 300	15 → 80

### Square bars

Product designation	Dimension (min. → max.) mm		
Rolled or forged square bars, annealed Length: 3.6-4 m	20 → 150		

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