

16MnCr5

Case-Hardening (Carburizing) Steel

W.-Nr. 1.7131

AISI/SAE 5115

EN 10084

Delivery +A, +TH

Density 7.85 g/cm³

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.14–0.19
Si	≤ 0.40
Mn	1.00–1.30
P	≤ 0.025
S	≤ 0.035
Cr	0.80–1.10

MECHANICAL PROPERTIES (KÖR SERTLEŞTİRİLMİŞ
(ÇEKİRDEK) / BLANK-HARDENED CORE)

SECTION (MM)	R _{EH} MIN MPA	R _M MPA	A MIN %
d ≤ 11	685	880–1180	8
11 < d ≤ 30	590	780–1080	9
30 < d ≤ 63	440	640–940	10

INTERNATIONAL EQUIVALENTS

EN	16MnCr5	JIS	≈ SCr415 / SCr420
W.-Nr. (DIN)	1.7131	GOST	≈ 18XГТ (18KhGT)
AISI/SAE	5115	BS (UK)	≈ 527A17
ASTM	A29 (5115)	GB (China)	≈ 16CrMn

TYPICAL APPLICATIONS

- Carburized gears and gear wheels
- Transmission and gearbox components
- Camshafts and eccentrics
- Injector and pump parts
- Pins, bushings and bearing parts
- Chain links and rollers

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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