

C15

Unalloyed Low-Carbon Steel

W.-Nr. 1.0401

AISI/SAE $\approx$ 1015 / 1018

EN 10084 / EN 10277

Delivery +A, +N

Density 7.85 g/cm³

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	0.12–0.18
Si	$\leq$ 0.40
Mn	0.30–0.60
P	$\leq$ 0.045
S	$\leq$ 0.045

MECHANICAL PROPERTIES (+N (NORMALIZE, TİPIK DEĞERLER) – SEMENTASYON İÇİN +A HALİNDE İŞLENİR)

SECTION (MM)	R _{EH} MIN MPA	R _M MPA	A MIN %
d $\leq$ 16 (+N)	$\approx$ 250	400–550	22
16 < d $\leq$ 40 (+N)	$\approx$ 240	380–530	24

INTERNATIONAL EQUIVALENTS

EN	C15 / C15E	JIS	S15C
W.-Nr. (DIN)	1.0401 (Ck15: 1.1141)	GOST	$\approx$ Сталь 15
AISI/SAE	$\approx$ 1015 / 1018	BS (UK)	$\approx$ 040A15 (EN32)
ASTM	A29 / A510	GB (China)	15

TYPICAL APPLICATIONS

- Lightly loaded case-hardened parts (small gears, pins, bushings)
- General machine parts
- Bolts, nuts and cold-headed fasteners
- Cold-formed sheet and profiles
- Welded light structures and brackets
- Chain and linkage 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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