STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

E295

Non-Alloy Engineering Steel (EN 10025-2)

W.-Nr. **1.0050** | EN 10025-2

Delivery **+AR, +N** | Density **7.85 g/cm³**

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C / Si / Mn	–
P	≤ 0.045
S	≤ 0.045
N	≤ 0.012

MECHANICAL PROPERTIES (+AR / +N)

SECTION (MM)	R_{EH} MIN MPA	R_M MPA	A MIN %
d ≤ 16	295	470–610	20
16 < d ≤ 40	285	470–610	20
40 < d ≤ 63	275	470–610	19
63 < d ≤ 80	265	470–610	18
80 < d ≤ 100	255	470–610	18
100 < d ≤ 150	245	450–610	16
150 < d ≤ 200	235	440–610	15
200 < d ≤ 250	225	440–610	15

Hardness Note: EN 10025-2 does not specify hardness. A tensile strength of 470–610 MPa corresponds to roughly 140–180 HB (approximate conversion, not a standard value).

INTERNATIONAL EQUIVALENTS

EN	E295	**AFNOR**	≈ A50-2
W.-Nr. (DIN)	1.0050	**UNI**	≈ Fe 490-2
DIN 17100 (old)	St 50-2	**JIS**	≈ SS490
AISI/SAE	–	**GOST**	≈ Ст5сп (St5sp)

TYPICAL APPLICATIONS

- Shafts and axles
- Pins, bolt blanks and studs
- Lightly loaded gears and gear blanks
- Keys, levers and linkage parts
- Agricultural machinery parts
- Machined parts for general engineering

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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