STEEL GRADE DATASHEET · ÇELIK KALITESI FÖYÜ

11SMnPb30

Leaded Free-Cutting (Free-Machining) Steel

W.-Nr. **1.0718** | AISI/SAE ≈ **12L14** | EN ISO 683-4 / EN 10277 | Delivery **+C, +SH, +SL** | Density **7.85 g/cm³**

CHEMICAL COMPOSITION

ELEMENT	WEIGHT %
C	≤ 0.14
Si	≤ 0.05
Mn	0.90–1.30
P	≤ 0.11
S	0.27–0.33
Pb	0.20–0.35

MECHANICAL PROPERTIES (+C · EN 10277)

SECTION (MM)	R_{EH} MIN MPA	R_M MPA	A MIN %
5 ≤ d ≤ 10	440	510–810	6
10 < d ≤ 16	410	490–760	7
16 < d ≤ 40	375	460–710	8
40 < d ≤ 63	305	400–650	9
63 < d ≤ 100	245	360–630	9

Hardness Note: The standard (EN 10277) specifies tensile strength by diameter rather than hardness: +C Rm 360–810 MPa. Not intended for hardening by heat treatment.

INTERNATIONAL EQUIVALENTS

EN	11SMnPb30	**JIS**	≈ SUM22L / SUM24L
W.-Nr. (DIN)	1.0718	**AFNOR**	S250Pb
AISI/SAE	≈ 12L14 (≈ 12L13)	**BS (UK)**	≈ 230M07Pb
ASTM	A108 (12L14)	**GB (China)**	≈ Y15Pb

TYPICAL APPLICATIONS

- Small parts mass-produced on automatic lathes
- Screws, nuts, studs and fasteners
- Hydraulic and pneumatic fitting bodies
- Bushings, pins and spacers
- Connector and instrument parts
- Short, lightly loaded shafts

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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