

EN1A Pb / 230M07Pb

11SMnPb30 1.0718

MATERIAL DATA SHEET

Parkside Steel

(Stockholders) Ltd

ISO 9001 | BSI FS 86692

Est. 1977 | Co. 01325509

01623 687 660

OVERVIEW

EN1A Pb is the leaded variant of EN1A free-cutting steel. Lead additions of 0.15-0.35% provide a further 25-35% improvement in machinability over standard EN1A. Subject to REACH regulation restrictions on lead in some applications. DO NOT WELD.

TYPICAL APPLICATIONS

- Highest-volume automatic turning
- Precision turned parts
- Fastener and fitting production
- Maximum surface finish applications

SUPPLY & PROCESSING

Supply: Bright round bar 5-210mm. Hexagon bar 6-75mm A/F.
Condition: Cold drawn bright bar.
Weldability: DO NOT WELD.
Machinability: Outstanding. Up to 200 m/min carbide.
Certification: 2.2 Test Report standard. REACH declaration available.

GRADE EQUIVALENTS

Standard	Designation
BS EN 10277:2018	11SMnPb30 / 1.0718
BS 970:1991 (withdrawn)	230M07Pb
AISI/SAE	12L13 / 12L14
DIN	—
ISO	11SMnPb30

CHEMICAL COMPOSITION (% by weight)

Designation	C max	Si max	Mn	P max	S	Pb
11SMnPb30/1.0718	0.14	0.05	0.90–1.30	0.11	0.27–0.33	0.15–0.35

MECHANICAL PROPERTIES

Condition	Size (mm)	Tensile Rm (N/mm ²)	Proof Rp0.2 (N/mm ²)	A%
CD	5–40 / 40–63 / 63–100	460–710 / 400–650 / 360–630	375 / 305 / 245	8 / 9 / 9

Indicative values. Properties vary by section size and heat treatment condition. Confirm with Parkside Steel.

TO ORDER / GET A QUOTE Call: 01623 687 660 Email: sales@parksidesteel.uk.com Online: parksidesteel.co.uk/quote No minimum order. Same-day collection available.

PARKSIDE STEEL (STOCKHOLDERS) LTD Byron House, 4 Willow Drive Sherwood Park, Annesley Nottinghamshire NG15 0DP ISO 9001 | BSI FS 86692 | Est. 1977