

Engineering Steel

Applications

- Shafts & rollers
- Machinery parts
- Threaded bars
- Spindles & axles
- Low stress engineering applications

Product Description

EN3B is a general engineering steel which is suitable in applications where heavy stresses and heat treatment are not involved. It is a bright drawn / turned mild steel with good machinability but poor hardenability, and is used in a variety of general engineering applications. EN3B can be case hardened and is normally used in the supplied condition. The material promotes good weldability characteristics.

Weldability

Good.

Key features:

- Suitable for low stress engineering applications
- Can be case hardened
- Good for general machining
- For general engineering use
- Good weldability

Machinability

Good general machining

Related material specifications

British BS 970:1991	070M20
Swedish SS	1370
German DIN	CK20
American SAE	1021
French AFNOR	XC18
European Standard	EN10083-1
European Steel No.	1.1151
European Steel Name	C22E

Availability

Round bar, flat bar, square bar, hexagon, sheet and plate

Chemical Composition (weight %)

	C	Mn	Si	P	S
min.	0.16	0.50			
max.	0.24	0.90	0.35	0.05	0.05

Mechanical Properties (cold drawn condition)

Condition	Tensile Strength MPa min.	Yield Strength MPa min.	Elongation %
Cold drawn	560	440	10
Turned & Polished	430	215	21

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801
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Smiths Horsham	01403 261 981	Main Office	0845 527 3331

Quality & Testing:



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