

080A15 (EN3B)

LOW CARBON ENGINEERING STEEL

We are a division of the Smiths Metal Centres Limited Group

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080A15 is a low carbon unalloyed engineering steel. This bright mild steel is utilised in various engineering and welding applications.

Also referred to as EN3B or EN32B steel, **080A15** has exceptional weldability properties and can be used in case hardening applications to improve wear resistance.

Chemical Composition (weight, %)

	C	Si	Mn	P	S	
Min.	0.13	0.10	0.70			
Max.	0.18	0.40	0.90	0.05	0.05	

* Properties as per BS 970

Suitability:

Used commonly in the tooling industry, is also suitable for producing low-stressed components such as shafts, gears and threaded bars.

Machinability:

This steel can be machined at moderate speeds and possesses reasonable machinability when cut with adequate lubricant. Due to its low strength, it is appropriate in applications where heavy tresses and heat treatments are not involved, which may cause the material to yield or distort. Free-cutting steel such as EN1A would be a suitable alternative if improved machinability is required.

080A15 was previously considered one of the most popular products available; it has now been replaced in particular application areas with steel products offering superior chemical composition.

Finish:

With minimal surface polishing, this steel grade offers a superior surface finish. Screw cutting is also undemanding when executed with suitable cutting oil.

Benefits:

- Exceptional weldability
- Machines well at reasonably high speeds
- Suitable for general engineering purposes
- High-quality surface finish

Availability:

We stock **080A15** in round and square bars of various diameters. We supply the product in standard lengths or cut to your specific size requirements.