

## 080A15 Carbon Steel

**080A15 steel suppliers, we deliver to the whole of the UK.** West Yorkshire Steel are suppliers of this low carbon steel grade in round bar and flat bar. 080A15 is a low carbon unalloyed steel commonly supplied as bright drawn bar. It is a good quality general engineering bright mild steel. Its low carbon content gives this grade good welding characteristics and it is also well suited for case hardening heat treatment.

We welcome export enquiries for 080A15 steel. Contact our sales office and consult our [shipping policy](#) for further details.

### Alternative carbon steel grades we supply

[EN3](#) | [EN8](#) | [EN9](#) | [EN32](#) | [EN43](#) | [070M20](#) | [080M40](#) | [070M55](#) | [S275](#) | [S355](#) | [Key Steel](#)

### Form of Supply

080A15 is supplied as bright drawn round and flat bar. The steel bars can be cut to your required lengths as one offs or multiple pieces. Centreless ground steel bar can be supplied in 080A15, providing a good quality ground bar to tight tolerances.

Contact our experienced sales team who will assist you with your 080A15 carbon steel enquiry.

- Flat
- Diameter

### Applications

A popular low carbon bright mild steel 080A15 gives reasonable strength and is commonly used for general engineering applications such as shafts, spindles, gears, bolts, spacers, brackets, fixtures and jigs.

### Analysis

Carbon	0.13-0.18%	Phosphorous	0.05% max
Manganese	0.70-0.90%	Sulphur	0.05% max
Silicon	0.10-0.40%		

## Normalising

080A15 is commonly supplied bright drawn, if the steel requires normalising heat to 880-910°C then furnace cool.

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## Stress Relieving

If stress relieving is required heat to a temperature of 650°C and allow to cool in air.

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## Heat Treatment

080A15 is suitable for case hardening, Components when case hardened have a core strength range of 430-490N/mm<sup>2</sup> with a hard wear resistant surface case. Heat treatment temperatures, cooling and soaking times will vary due to factors such as the shape and size of each component. Other considerations during the heat treatment process include the type of furnace, quenching medium and work piece transfer facilities. Please consult your heat treatment provider for full guidance on heat treatment of 080A15 bright mild steel.

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## Certification

080A15 bright mild steel is commonly available with a cast and analysis certificate or a certificate of conformity, please request when placing any orders.