

# 835M15

Quality 835M15 cut and delivered in round bar..

## 835M15 stockholders and suppliers, delivering to the whole of the UK.

835M15 is a 4.5% nickel, chromium, molybdenum grade, suitable for case hardening to give a case resistant surface with a high core strength up to 1310 N/mm<sup>2</sup>. This grade is commonly supplied as round bar.

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

## Alternative case hardening grades we supply

[655M13](#) | [16MnCr5](#) | [20MnCr5](#) | [8620](#)

## Form of Supply

West Yorkshire Steel are stockholders and suppliers of 835M15 round bar. Diameters in grade 835M15 can be sawn to your required lengths as one offs or multiple cut pieces. Ground steel bar can be supplied, providing a case hardening steel precision ground bar to tight tolerances.

## Applications

As a carburising steel with high core strength it is suitable for heavy duty applications such as roller bearings, shafts and clutch plates.



Contact our experienced sales team who will assist you with your enquiry.

### ■ Diameter

## Analysis

Carbon	0.12-0.18%	Silicon	0.10-0.35%
Manganese	0.25-0.50%	Nickel	3.90-4.30%
Molybdenum	0.15-0.30%	Phosphorous	0.035% max
Sulphur	0.040% max		

## Carburising / Case Hardening

Case hardening of 835M15 will give a hard wear resistant surface and a tough core strength to the steel. Surfaces must be free from dirt and grease, and of low sulphur content. Case hardening can be carried out in salt baths with selected content depending on the type of salt and the depth of penetration required. Other considerations during the heat treatment process include the type of furnace, quenching medium and work piece transfer facilities. Time, temperatures and salt selection will be advised by your heat treatment provider.

## Heat Treatment

Heat treatment temperatures, including rate of heating, cooling and soaking times will vary due to factors such as the shape and size of each 835M15 component. Other considerations during the heat treatment process include the type of furnace, quenching medium and the work piece transfer facilities. Please consult your heat treatment provider for full guidance on heat treatment of 835M15 steel.

## Certification

835M15 casehardening steel is available with a cast and analysis certificate or BS EN 10204 3.1 mill certificate, please request when placing any orders.

## Quality Assured Supply

835M15 is supplied in accordance with our ISO 9001:2015 registration.