

## 665M17 Case Hardening Steel

**665M17 steel suppliers, delivering throughout the UK.** This is a 2% nickel, molybdenum case hardening steel grade. 665M17 is suitable for applications requiring wear resistance and shock resistance. It offers good core strength and impact properties with little temper brittleness. Combining good core strength, toughness and fatigue resistance this grade can be case hardened up to 60HRc.

We welcome export enquiries for 665M17 case hardening steel. Contact our sales office and consult our [shipping policy](#) for details.

### Form of Supply

West Yorkshire Steel are stockholders and suppliers of 665M17 round bar. Diameters 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 your required tolerances.

Contact our experienced sales team who will assist you with your 665M17 case hardening steel enquiry.

- Diameter

### Applications

This case hardening steel grade is suitable for transmission parts, camshafts, cams shafts and gears.

### Analysis

Carbon	0.14-0.20%	Nickel	1.50-2.00%
Manganese	0.35-0.75%	Molybdenum	0.20-0.30%
Silicon	0.10-0.35%	Sulphur	0.040% max
		Phosphorous	0.035% max

## Carburising / Case Hardening

Case hardening will give a hard wear resistant surface and a tough core strength to the 665M17. Surfaces must be free from dirt and grease, and of low sulphur content. Case hardening can be performed 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.

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## 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 665M17 steel 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 665M17 case hardening steel grade.

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## Certification

665M17 case hardening steel is available with BS EN 10204 3.1 mill certificate, please request when placing any orders.