Nitriding Steel

With a high surface hardness nitriding steel grades offer increased wear resistance.

**Nitriding steel stockholders and suppliers, delivering to the whole of the UK.** Nitriding steel specifications are available in round bar, flat bar and steel plate. Nitriding is a heat treatment process that introduces nitrogen into the surface of a steel and dependent on the material and nitriding process, a nitride case depth of 0.05mm up to 0.50mm can be achieved. With a high surface hardness nitriding steel grades offer increased wear resistance. This can improve fatigue life and also improve the corrosion resistance (though not for stainless steel grades).

If you do no find the nitriding steel specification you require on our web site please contact our experienced sales team who may be able to assist you with your enquiry.

We welcome export enquiries for nitriding steel. Contact our sales office and consult our [shipping policy](mailto:shippingpolicy) for further details.

**Popular nitriding steel grades we supply**

- EN40B
- EN41B
- 722M24
- 905M39

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**Form of Supply**

West Yorkshire Steel are stockholders and suppliers of nitriding steel specifications in round bar, flat bar and cut plate. Diameters and flats can be supplied as full bar lengths or cut pieces. Diameters in nitriding steel grades can be precision ground to tight tolerances.

Contact our friendly sales team who will assist you with your nitriding steel enquiry.

- Flat
- Diameter

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**Specifications**

Common nitriding steel grades are generally medium carbon alloy steel types that have strong nitride-forming elements such as aluminium chromium, vanadium and molybdenum.

Below we list our range of engineering steel. If you do no find the specification you require on our web site please contact our experienced sales team who may be able to assist you with your enquiry.
Other nitriding grades include hot work tool steel (H13), cold work tool steel (O1, O2, D2, D3, D6, A2, S1) plastic mould steel (P20, 2767), high speed steel (M2, M42) stainless steel (420, 17/4PH, 440B, 440C) and some cast iron grades are also suitable for nitriding.

Heat Treatment

When heat treating nitriding steel grades consideration should be given to temperatures, including rate of heating, cooling and soaking times etc. 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 steel grades.

Welding

We recommend that you contact your welding consumables supplier who should provide you full assistance and information on welding nitriding steel grades.

Certification

Nitriding steel specifications are commonly available with a cast and analysis certificate or a BS EN 10204 3.1 mill certificate, please request when placing any orders.

Quality Assured Supply

All our nitriding steel specifications are supplied in accordance with our ISO 9001:2015 registration.