

8620 Case Hardening Steel

8620 steel suppliers, delivering to the whole of the UK. This grade is a low alloy nickel, chromium, molybdenum case hardening steel. Carburised 8620 gives a hard case with a strong core whilst retaining a remarkable degree of toughness. SAE 8620 is suited for applications which require a combination of toughness and wear resistance. This grade is commonly supplied in round bar also conforming to the AISI 8620 standard.

We welcome export enquiries for 8620 case hardening steel. Contact our sales office and consult our [shipping policy](#) for details.

Alternative grades we supply

[4130](#) | [4140](#) | [4145](#) | [4330V](#) | [4340](#) | [6150](#)

Form of Supply

West Yorkshire Steel are suppliers of SAE AISI 8620 8620H round bar. Diameters in 8620 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.

Contact our experienced sales team who will assist you with your SAE 8620 case hardening steel enquiry.

- Diameter

Applications

This carburising steel grade is suitable for shafts, gears, pinions, collets. 8620 is commonly used in the engineering and automotive industries for toolholders and other such components.

Analysis

Carbon	0.18-0.23%	Chromium	0.40-0.60%
Manganese	0.70-0.90%	Nickel	0.40-0.70%
Silicon	0.15-0.35%	Sulphur	0.035% max
Molybdenum	0.15-0.25%	Phosphorous	0.040% max

Carburising / Case Hardening

Case hardening will give a hard wear resisting surface and a tough core strength to the steel. Case hardening temperatures range from 880-930°C, followed by rapid quenching and tempering which will determine the resulting hardness.

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 steel 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 8620 steel.

Certification

8620 case hardening steel is available with BS EN 10204 3.1 mill certificate, please request when placing any orders.