

# 8620

Quality 8620 case hardening steel.

## 8620 steel suppliers, delivering to the whole of the UK

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

## Alternative case hardening grades we supply

| [EN32](#) | [EN36](#) | [16MnCr5](#) | [20MnCr5](#) |

## 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.

## 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.



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

■ Diameter

## Analysis

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

## Carburising / Case Hardening

Case hardening 8620 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

When hardening 8620 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 heat treatment include the type of furnace, quenching medium and work piece transfer facilities. Please consult a heat treatment specialist for full guidance on heat treatment of 8620 steel.

## Certification

8620 case hardening 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

8620 is supplied in accordance with our ISO 9001:2015 registration.