

1.1730 Carbon Tool Steel

1.1730 carbon tool steel stockholders and suppliers, delivering to the whole of the UK. 1.1730 is a medium carbon unalloyed tool steel grade offering reasonable tensile strength. This grade can be hardened and tempered to produce a good surface hardness with moderate wear resistance. 1.1730 is widely used for components that require good machinability and wear resistant properties but does not justify the costs of an alloyed tool steel. Available from stock in round bar and cut plate.

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

Related Specifications

AISI ASTM A681 DIN 17350 BS EN ISO 4957

Alternative tool steel grades we supply

[D2](#) | [D3](#) | [O2](#) | [D6](#) | [A2](#) | [S1](#) | [H13](#) | [P20](#) | [P20S](#) | [420](#) | [1.2083](#) | [2767](#) | [M2](#) | [M42](#)

Form of Supply

West Yorkshire Steel are steel stockholders and suppliers of 1.1730 steel round, square and flat. The steel can be sawn to your required length in 1 off or multiple cut pieces. Ground 1.1730 steel bar can be supplied, providing a precision ground steel bar to tight tolerances.

Contact our experienced sales team who will assist you with your 1.1730 medium carbon steel enquiry.

- Plate
 - Flat
 - Diameter
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Applications

1.1730 is suitable for many general engineering applications, such as bolsters, bending dies, guide plates, jigs and fixtures.

1.1730 Typical Analysis

Carbon	0.45%	Phosphorous	0.030% max
Manganese	0.60%	Sulphur	0.030% max
Silicon	0.25%		

1.1730 Ground Flat Stock

Precision ground flat stock / gauge plate can be supplied in 500mm / 1000mm lengths. Non-standard sizes can be produced in approximately 2 to 3 weeks.

Forging

Preheat carefully, then raise the steel to a temperature of 1100°C for forging. Do not forge below 850°C. After forging cool slowly, preferably in a furnace.

Annealing

Heat slowly to 680-710°C, soak well. Cool slowly in the furnace.

Hardening

Heat the component slowly to 820-870°C and allow it to be heated through. Quench in oil or water.

Tempering

Temper immediately after quenching whilst tools are still hand warm. Re-heat to the tempering temperature then soak for one hour per 25 millimetre of total thickness (2 hours minimum) Cool in air.

Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding 1.1730steel.

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 1.1730 steel component. Other considerations during heat treatment include the type of furnace, the quenching medium and work piece transfer facilities. Please consult your heat treatment provider for full guidance on heat treatment of 1.1730 steel.

Certification

1.1730 steel is available with a cast and analysis certificate, please request when placing any orders.

Quality Assured Supply

1.1730 tool steel is supplied in accordance with our ISO 9001:2015 registration.