

070M55 Carbon Steel

070M55 steel suppliers and stockholders delivering to the whole of the UK. West Yorkshire Steel are suppliers of 070M55 round bar, flat bar and hexagon bar in full lengths or cut to your requirements. 070M55 is a medium carbon grade commonly supplied in the as rolled or bright drawn condition. 070M55 flame cut steel plates can be supplied cut to your required sizes and normalized. Flame cut plates can be supplied Lumsden ground or precision ground. The steel can be flame or induction hardened to produce a high surface hardness with excellent wear resistance for a carbon steel grade.

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

Alternative carbon steel grades we supply

[EN3](#) | [EN8](#) | [EN9](#) | [EN32](#) | [EN43](#) | [070M20](#) | [080M40](#) | [080A15](#) | [S275](#) | [S355](#) | [Key Steel](#)

Form of Supply

West Yorkshire Steel supply round, square, hexagon and flat bar. 070M55 bar can be sawn cut to your required lengths as one offs or multiple cut pieces. Flame cut profile plates can be supplied, surface ground or precision ground if required. Centreless ground 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 enquiry.

- Sheet
 - Plate
 - Flat
 - Diameter
 - Hexagonal
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Applications

070M55 is used commonly for many general engineering applications. Typical applications include, shafts, axes, screws, sickles, wood working drills, hammers, knives, bushes and crankshafts.

Analysis

Carbon	0.50-0.60%	Phosphorous	0.06% max
Manganese	0.50-0.80%	Sulphur	0.06% max
Silicon	0.05-0.35%		

Flame Cut Profiles

West Yorkshire Steel are suppliers of 070M55 flame cut steel profiles. When flame cutting a hard edge can occur therefore steel profiles are commonly normalised after flame cutting. The flame cut profiles can be supplied Lumsden ground or precision ground.

Ground Flat Stock

Precision ground flat stock / gauge plate can be produced using 070M55 steel. Subject to size suitability and availability pieces can be produced in approximately 2 to 3 weeks. Standard and non-standard sizes are available.

Forging

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

Annealing

Heat the 070M55 slowly to 680-710°C, soak well. Cool slowly in the furnace.

Hardening

Heat the steel slowly to 800-860°C and allow it to be heated through. Quench in oil or water.

Tempering

Temper the component 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 (for two hours minimum) Cool in air. For most applications tempering of 070M55 will be between 550-660°C.

Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding 070M55 steel.

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 carbon steel specifications.

Certification

070M55 carbon steel is 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

070M55 is supplied in accordance with our ISO 9001:2015 registration.