



070M55

070M55 plate, round and flat bar

070M55 steel stockholders and suppliers, delivering throughout the UK.

West Yorkshire Steel are steel stockholders and suppliers of 070M55 carbon steel in round, square, hexagon and flat bar. Diameters and flat bar can be sawn cut to your exact requirements. West Yorkshire Steel can offer flame cut profile plates in grade 070M55, which can be surface ground if required. Ground steel bar can be supplied, providing a precision ground steel bar to tight tolerances.

Alternative carbon steel grades we supply

[070M20](#) | [080M40](#) | [080A15](#) | [S275](#) | [S355](#) | [Key Steel](#) |

Form of Supply

West Yorkshire Steel are steel stockholders and suppliers of 070M55 carbon steel in round, square, hexagon and flat bar. Diameters and flat bar can be sawn cut to your exact requirements. West Yorkshire Steel can offer flame cut profile plates in grade 070M55, which can be surface ground if required. Ground steel bar can be supplied, providing a precision ground steel bar to tight tolerances.



- Flat
- Diameter
- Plate

Contact our experienced sales team who will assist you with your 070M55 enquiry.

Applications

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

Analysis

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

Flame Cut Profiles

West Yorkshire Steel are suppliers of 070M55 flame cut steel profiles. A hard edge can occur when flame cutting 070M55 plates therefore this grade is commonly normalised after cutting. 070M55 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 of raw material pieces can be produced in approximately 2 to 3 weeks. Standard and non-standard sizes are available

Forging

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

Annealing

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

Hardening

Heat slowly to 820-840°C and allow it to be heated through. Quench in oil, brine or water.

Tempering

Temper the 070M55 steel component immediately after quenching whilst 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. 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 EN8 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 070M55 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 070M55 carbon steel.

Certification

070M55 steel is available with a cast and analysis certificate or certificate of conformity, please request when placing any orders.

Quality Assured Supply

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



West Yorkshire Steel Ltd
Sandbeck Industrial Estate,
Wetherby, Leeds,
LS22 7DN UK

Call: 01937 584440
Fax: 01937 580128
Email: sales@westyorkssteel.com



QUOTE ME



Information provided on our datasheets has been drawn from various recognised sources, including British, European and International Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data but will conform to all relevant and applicable standards. Any of the products detailed may be used for a large range of purposes and as WYS has no control over their use; WYS specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. © West Yorkshire Steel Ltd. All Rights Reserved.