

## EN42 Spring Steel

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**EN42 spring steel stockholders and suppliers, delivering to the whole of the UK.** Available as annealed sheet or hardened and tempered spring steel strip it is supplied to specification conforming to BS970 designation. EN42 strip is supplied in coils and can be cut to your requirements. This is a carbon spring steel grade with an average carbon content of 0.70%. It is common for EN42 steel strip to be supplied with a polished finish; which is achieved by fine grinding, abrasive brushing or other similar processes. With this polished finish the strip is available with dressed edges or sheared edges slit to your required width. For spring applications it is recommended that the steel is used in the hardened and tempered condition. EN42 annealed is available in sheet, plate and strip.

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

### Alternative spring steel grades we supply

[CS70](#) | [CS80](#) | [CS95](#) | [CS100](#) | [EN43](#) | [EN45](#) | [EN47](#) | [735A50](#) | [6150](#) | [301](#)

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### Form of Supply

West Yorkshire Steel are suppliers of EN42 hardened & tempered strip. Annealed EN42 spring steel is supplied in plate, sheet and strip. Hardened and tempered EN42 is supplied in coil, which can be slit and cut to length or sheared as individual pieces to your exact sizes.

- Sheet
  - Plate
  - Strip
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### Applications

EN42 is suitable for a wide variety of spring applications including flat springs, clutches, knives, doctor blades, saw blades, agricultural tools, wood cutting saws, shims, knives, blades, shims, washers, masonry tools.

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### Analysis

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|-----------|------------|-------------|-----------|
| Carbon    | 0.70-0.80% | Phosphorous | 0.05% max |
| Manganese | 0.55-0.75% | Sulphur     | 0.05% max |
| Silicon   | 0.10-0.40% |             |           |

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## Heat Treatment

When heat treating EN42 temperatures, including rate of heating, cooling and soaking times etc. will vary due to factors such as the shape and size of each 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 spring steels.

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## Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding EN42 steel.

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## Certification

Spring steel grade EN42 is available with cast and analysis certification, please request when placing any orders.

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## Quality Assured Supply

EN42 spring steel is supplied in accordance with our ISO 9001:2015 registration.