

CS80 Spring Steel

CS80 spring steel stockholders and suppliers, delivering to the whole of the UK. West Yorkshire Steel are suppliers and stockholders of sheet, strip and plate conforming to BS1449 and BS5770 designations. This grade is a carbon spring steel with an average carbon content of 0.80%. When supplied in coil it can be cut and slit to your requirements. It is common for CS80 strip to be supplied with a polished surface finish; this is achieved by a fine grinding, abrasive brushing or other similar process. With this polished finish CS80 strip is supplied with dressed edges or sheared to your required width. For spring applications it is recommended that CS80 is used in the hardened and tempered condition. CS80 annealed spring steel is supplied in plate, sheet and strip.

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

Related Specifications

BS1449 BS5770 1.0605 1.1248 1.1269 BSEN10132-4 XC75 AISI 1080 AISI 1084
AISI 1086 SAE 1086 SAE 1080 SAE 1084 C75 Ck75 C75S C85S C80 C85 Ck85 DIN17222

Alternative spring steel grades we supply

[CS70](#) | [CS95](#) | [CS100](#) | [EN42](#) | [EN43](#) | [EN45](#) | [EN47](#) | [735A50](#) | [6150](#) | [301](#)

Form of Supply

We are CS80 hardened & tempered spring steel strip and annealed spring steel plate and sheet stockholders and suppliers. CS80 hardened and tempered strip is supplied in coil, which can be slit and cut to length or sheared as individual pieces to your exact sizes. Annealed CS80 is available in plate, sheet and strip.

- Sheet
 - Plate
 - Strip
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Applications

CS80 is commonly used for a wide variety of spring applications including knives, doctor blades, saw blades, masonry tools, clutches, agricultural tools, wood cutting saws, shims, blades, shims, washers and flat springs.

Analysis

| | | | |
|-----------|------------|-------------|------------|
| Carbon | 0.75-0.85% | Phosphorous | 0.045% max |
| Manganese | 0.50-0.90% | Sulphur | 0.045% max |
| Silicon | 0.05-0.35% | | |

Heat Treatment

For any heat treatment of this grade attention should be given to temperatures, including rate of heating, cooling and soaking times etc. which will vary due to factors such as the shape and size of each spring 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 who should provide full guidance on heat treatment of CS80 spring steel.

Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding CS80 steel.

Certification

Spring steel CS80 grade is available with cast and analysis certification, please request when placing any orders.

Quality Assured Supply

CS80 spring steel is supplied in accordance with our ISO 9001:2015 registration.