



Description & Size

EN45 is a silicon manganese medium carbon spring steel, suitable for oil hardening and tempering. It is part of BS970.

BSS typically supply EN45 in flat bar.

Bar widths:
21mm - 127mm

Bar thicknesses:
4.76mm - 19mm thick

Bar can be cut to specified length.

Hardness

We supply EN45 with a typical as-rolled hardness of 220/240vhn.

Composition

| | EN45 |
|--------------------|---------------|
| Carbon | 0.55% - 0.60% |
| Manganese | 0.70% - 1.00% |
| Silicon | 1.50% - 2.00% |
| Vanadium | 0.05% max |
| Phosphorous | 0.05% max |

Related Specifications

EN45 is a close equivalent to:

BS970 250A53, 56Si7, 55Si7 and
SAE 9260

Condition Supplied

BSS Supply EN45 in the following conditions:

Black, as rolled.



Applications

Typically, applications include:

- Automotive leaf springs
- Knives
- Swords
- General engineering
- General automotive heavy spring parts

Fast UK and
international
shipping

Contact

For quotations and enquiries, or to place an order, please contact our customer service team.

Our office is open from:

8.30am - 5.00pm Mon-Thurs
8.30am - 3:45pm Fridays.

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