

C45 C45E C45R

Chemical composition, mechanical and physical property values, and 4 standard designations from 4 regions.

OTHER DESIGNATIONS

4 in 4 regions

PROPERTY VALUES

0 on file

Chemical composition

Mass fraction in %

No chemical composition is on file for this material number.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: C, Mn, Si, Ni, Cr, Mo.

Designations across standards

4 designations · 1 documented as identical

United Kingdom	1	Japan	1
C45 C45E C45R	bs	S45C This grade's own name	jis
International	1	China	1
C45 C45E4 C45M2	iso	45	gb

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about C45 C45E C45R

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

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ISSUED

Aug 13, 2026