

MATERIAL NUMBER 1.0596 · CLASS 1.0

# Fe510DD2

Material no. 1.0596

also listed as S355K2

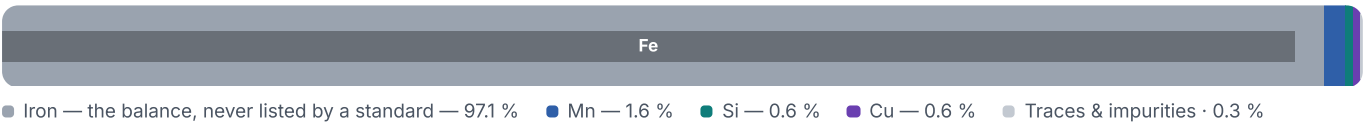
Chemical composition, mechanical and physical property values, and 7 standard designations from 5 regions.

|                              |                                             |                                     |
|------------------------------|---------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm³ | OTHER DESIGNATIONS<br><b>7</b> in 5 regions | PROPERTY VALUES<br><b>7</b> on file |
|------------------------------|---------------------------------------------|-------------------------------------|

## Chemical composition

Mass fraction in %

What this alloy is



Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

## Predicted transformation temperatures

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

Mechanical properties

3 values across 1 conditions

| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A<br>% |
|-----------------------|-------------------------|-------------------------|--------|
| Hot-rolled            | 520–640                 | 325–365                 | 15–21  |

Physical properties

1 values

| PROPERTY | VALUE | UNIT              |
|----------|-------|-------------------|
| Density  | 7.85  | g/cm <sup>3</sup> |

Designations across standards

7 designations · 3 documented as identical

|                |                                 |             |                             |
|----------------|---------------------------------|-------------|-----------------------------|
| Europe         | 3                               | Japan       | 1                           |
| Fe510DD2       | din-en                          | SM520B      | jis                         |
| S355K2         | This grade's own name<br>din-en |             |                             |
| S355K2G4       | This grade's own name<br>din-en | Hungary     | 1                           |
|                |                                 | Fe 355 D    | msz                         |
| United Kingdom | 1                               | South Korea | 1                           |
| 50EE           | bs                              | SM520B      | This grade's own name<br>ks |

**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 Fe510DD2

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

Start an enquiry

|                        |                   |              |              |
|------------------------|-------------------|--------------|--------------|
| DATASHEET ONLINE       | GRADE SEARCH      | MATERIAL NO. | ISSUED       |
| View the material page | Search all grades | 1.0596       | Aug 20, 2026 |