

MATERIAL NUMBER 1.0038 · CLASS 1.0

# Fe 235 B

Material no. 1.0038

also listed as RSt 37-2

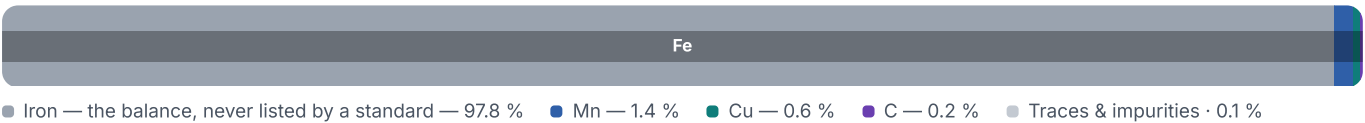
Chemical composition, mechanical and physical property values, and 152 standard designations from 25 regions.

|                              |                                                |                                     |
|------------------------------|------------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm³ | OTHER DESIGNATIONS<br><b>152</b> in 25 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------|------------------------------------------------|-------------------------------------|

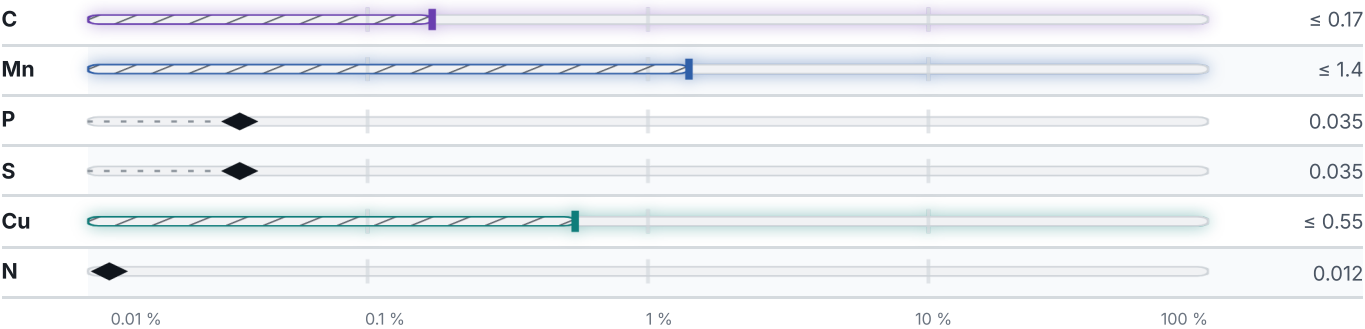
Chemical composition

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: Si, Ni, Cr, Mo.

Mechanical properties

12 values across 2 conditions

| NORMALIZED            |                         | RM<br>N/mm <sup>2</sup> | A<br>%  |
|-----------------------|-------------------------|-------------------------|---------|
| ≤ 100                 |                         | 340                     | 24      |
| 100 – 250             |                         | 340                     | 23      |
| 250 – 500             |                         | 340                     | 23      |
| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% |
| 2 - 3.9               | 370                     | 245                     | 20      |
| 4 - 10                | 370                     | 245                     | 25      |

Physical properties

2 values

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

Technological properties

| PROPERTY    | VALUE                | UNIT |
|-------------|----------------------|------|
| Weldability | without limitations. |      |

## Designations across standards

152 designations · 9 documented as identical

| United States  |                       | 23       | Italy       |                       | 11    |
|----------------|-----------------------|----------|-------------|-----------------------|-------|
| K01500         | This grade's own name | uns      | FE360B      |                       | uni   |
| K01702         | This grade's own name | uns      | Fe360BFN    |                       | uni   |
| K02401         | This grade's own name | uns      | Fe360C      |                       | uni   |
| K02502         | This grade's own name | uns      | Fe360CFN    |                       | uni   |
| K03000         | This grade's own name | uns      | Fe360D      |                       | uni   |
| A284Gr.D       |                       | aisi-sae | Fe360DFF    |                       | uni   |
| A570           |                       | aisi-sae | Fe37-2      |                       | uni   |
| A570 Gr. 36    |                       | aisi-sae | S235J0      |                       | uni   |
| A570.36        |                       | aisi-sae | S235J2G3    |                       | uni   |
| A573Gr.58      |                       | aisi-sae | S235J2G4    |                       | uni   |
| A611Gr.C       |                       | aisi-sae | S235JRG2    |                       | uni   |
| Gr.36          |                       | aisi-sae |             |                       |       |
| GradeC         |                       | aisi-sae | China       |                       | 10    |
| K01804         |                       | aisi-sae | 15          |                       | gb    |
| K02001         |                       | aisi-sae | 40B         | This grade's own name | gb    |
| K02301         |                       | aisi-sae | A3          |                       | gb    |
| K02502         |                       | aisi-sae | Q235        |                       | gb    |
| K02601         |                       | aisi-sae | Q235-A      |                       | gb    |
| K02701         |                       | aisi-sae | Q235A-B     |                       | gb    |
| K02702         |                       | aisi-sae | Q235A-Z     |                       | gb    |
| M1017          |                       | aisi-sae | Q235B       |                       | gb    |
| A283GRC        |                       | astm     | Q235B-Z     |                       | gb    |
| A570           |                       | astm     | Q235C       |                       | gb    |
| United Kingdom |                       | 22       | France      |                       | 9     |
| 050A17         |                       | bs       | A37-2       |                       | afnor |
| 1449-27/23CR   |                       | bs       | E 24-2 Ne – |                       | afnor |
| 1449-37/23CR   |                       | bs       | E24-2       |                       | afnor |
| 37/23HR        |                       | bs       | E24-3       |                       | afnor |
| 40B            |                       | bs       | E24-4       |                       | afnor |
| 40C            |                       | bs       | S235J0      |                       | afnor |
| 40D            |                       | bs       | S235J2G3    |                       | afnor |
| 4360 40 C      |                       | bs       | S235J2G4    |                       | afnor |
| 4360-40B       |                       | bs       | S235JRG2    |                       | afnor |
| 4360-40D       |                       | bs       |             |                       |       |
| 4449-250       |                       | bs       | Spain       |                       | 8     |
| 722M24         |                       | bs       | AE235B-FN   |                       | une   |
| Fe360BFU       |                       | bs       | AE235BFU    |                       | une   |
| Fe360D1FF      |                       | bs       | AE235D      |                       | une   |
| Gr 40A         |                       | bs       | Fe360BFN    |                       | une   |
| HFS3           |                       | bs       | Fe360BFU    |                       | une   |
| HFS4           |                       | bs       | Fe360D1FF   |                       | une   |
| HFW3           |                       | bs       | S235J2G3    |                       | une   |
| HFW4           |                       | bs       | S235JRG2    |                       | une   |
| S235J2G3       |                       | bs       |             |                       |       |
| S235JR         |                       | bs       |             |                       |       |
| S235JRG2       |                       | bs       |             |                       |       |

|                                             |        |                      |      |
|---------------------------------------------|--------|----------------------|------|
| <b>Japan</b>                                | 7      | <b>International</b> | 4    |
| SAPH38                                      | jis    | E235-B               | iso  |
| SS330                                       | jis    | E235-C               | iso  |
| SS34                                        | jis    | Fe360-C              | iso  |
| SS400                                       | jis    | Fe360B               | iso  |
| STKM 12A                                    | jis    |                      |      |
| STKM 12A STKM 12C                           | jis    | <b>Sweden</b>        | 4    |
| STKM 12C                                    | jis    | 1311                 | ss   |
|                                             |        | 1312                 | ss   |
| <b>Poland</b>                               | 7      | 1312-00              | ss   |
| St3S                                        | pn     | 1313                 | ss   |
| St3SX                                       | pn     |                      |      |
| St3SY                                       | pn     | <b>Czechia</b>       | 4    |
| St3V                                        | pn     | 11342                | csn  |
| St3V St3VY                                  | pn     | 11373                | csn  |
| St3VY                                       | pn     | 11375                | csn  |
| St3W                                        | pn     | 11378                | csn  |
|                                             |        |                      |      |
| <b>Hungary</b>                              | 7      | <b>Finland</b>       | 4    |
| 37 B                                        | msz    | Fe37B                | sfs  |
| A 38 B                                      | msz    | FORM300H             | sfs  |
| Fe 235 B                                    | msz    | RACOLD03F            | sfs  |
| Fe235B/FN                                   | msz    | RACOLD215S           | sfs  |
| Fe235D                                      | msz    |                      |      |
| S235J2G3                                    | msz    | <b>Brazil</b>        | 3    |
| S235JRG2                                    | msz    | NBR 6648 CG26        | abnt |
|                                             |        | NBR 6650 CF26        | abnt |
| <b>Bulgaria</b>                             | 7      | NBR 7007 MR250       | abnt |
| BSt3ps                                      | bds    |                      |      |
| BSt3sp                                      | bds    | <b>Romania</b>       | 3    |
| Ew-08AA                                     | bds    | OL37.1               | stas |
| S235J2G3                                    | bds    | OL37.2               | stas |
| S235JRG2                                    | bds    | OL37.4               | stas |
| WSt3ps                                      | bds    |                      |      |
| WSt3sp                                      | bds    | <b>Belgium</b>       | 3    |
|                                             |        | FE360BFN             | nbn  |
| <b>Europe</b>                               | 5      | FE360BFU             | nbn  |
| 1.0038                                      | din-en | FED1FF               | nbn  |
| Fe360BFN                                    | din-en |                      |      |
| RSt 37-2 <span>This grade's own name</span> | din-en | <b>Slovakia</b>      | 1    |
| S235JR <span>This grade's own name</span>   | din-en | 11 375               | stn  |
| S235JRG2 <span>This grade's own name</span> | din-en |                      |      |
|                                             |        | <b>Serbia</b>        | 1    |
| <b>Russia / CIS</b>                         | 5      | Č.0361               | srps |
| S245                                        | gost   |                      |      |
| St3ps                                       | gost   | <b>Croatia</b>       | 1    |
| St3sp                                       | gost   | Č0361                | hrn  |
| C245                                        | gost   |                      |      |
| Ct3cn                                       | gost   | <b>South Africa</b>  | 1    |
|                                             |        | 240 WA               | sans |

|         |       |        |     |
|---------|-------|--------|-----|
| Austria | 1     | Canada | 1   |
| RSt360B | onorm | 230G   | csa |

**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 Fe 235 B

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

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