

MATERIAL NUMBER 1.0426 · CLASS 1.0

# St3M

## Material no. 1.0426

also listed as P280GH

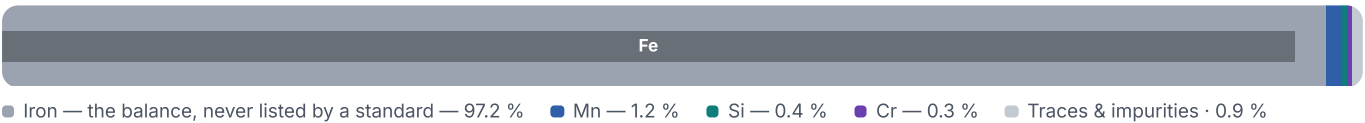
Chemical composition, mechanical and physical property values, and 56 standard designations from 17 regions.

|                                          |                                               |                                      |
|------------------------------------------|-----------------------------------------------|--------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>56</b> in 17 regions | PROPERTY VALUES<br><b>12</b> on file |
|------------------------------------------|-----------------------------------------------|--------------------------------------|

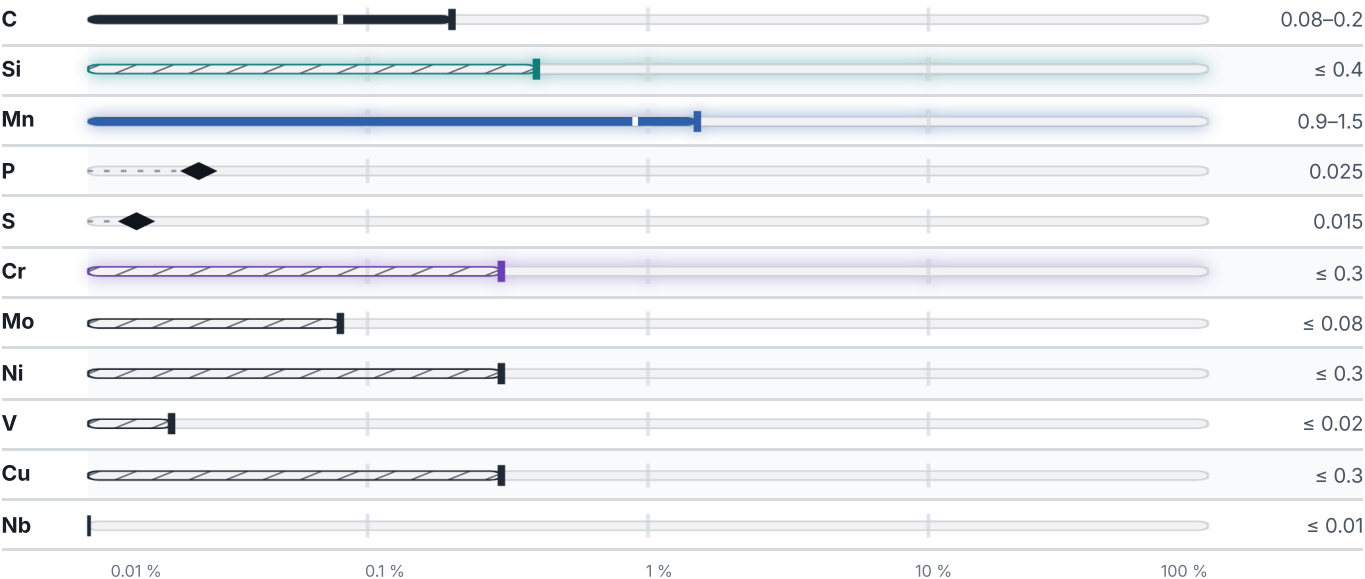
### Chemical composition

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

computed from composition · °C

|                         |                         |                         |                        |
|-------------------------|-------------------------|-------------------------|------------------------|
| PREDICTED AE3<br>810 °C | PREDICTED AE1<br>714 °C | PREDICTED ACM<br>436 °C | PREDICTED BS<br>555 °C |
|-------------------------|-------------------------|-------------------------|------------------------|

Mechanical properties

2 values across 1 conditions

| CONDITION · DIMENSION | REH<br>N/mm² |
|-----------------------|--------------|
| ≤ 35                  | 280          |
| 35 – 160              | 255          |

Physical properties

1 values

| PROPERTY | VALUE | UNIT  |
|----------|-------|-------|
| Density  | 7.85  | g/cm³ |

Designations across standards

56 designations · 5 documented as identical

|                 |                          |                 |       |
|-----------------|--------------------------|-----------------|-------|
| United States10 |                          | United Kingdom6 |       |
| K01701          | This grade's own nameuns | 1501Gr.164-360  | bs    |
| K02100          | This grade's own nameuns | 151-400         | bs    |
| K02402          | This grade's own nameuns | 161-430         | bs    |
| Gr.60           | aisi-sae                 | 164-360         | bs    |
| K01701          | aisi-sae                 | 400-22          | bs    |
| K02401          | aisi-sae                 | P265GH          | bs    |
| K02402          | aisi-sae                 |                 |       |
| K02505          | aisi-sae                 | France4         |       |
| K02801          | aisi-sae                 | A42AP           | afnor |
| X42             | aisi-sae                 | A42CP           | afnor |
|                 |                          | A42F            | afnor |
| Japan8          |                          | P265GH          | afnor |
| SG295           | jis                      |                 |       |
| SGV410          | jis                      | Italy4          |       |
| SGV450          | jis                      | Fe4102KG        | uni   |
| SGV480          | jis                      | Fe4102KW        | uni   |
| SM53B           | jis                      | Fe410KW         | uni   |
| SM53C           | jis                      | P265GH          | uni   |
| SPV235          | jis                      |                 |       |
| SPV315          | jis                      | Sweden3         |       |
|                 |                          | 1430            | ss    |
|                 |                          | 1431            | ss    |
|                 |                          | 1432            | ss    |

|                                          |      |                                           |        |
|------------------------------------------|------|-------------------------------------------|--------|
| Czechia                                  | 3    | Hungary                                   | 2      |
| 11 418                                   | csn  | KL2C                                      | msz    |
| 11416                                    | csn  | P265GH                                    | msz    |
| 11431                                    | csn  |                                           |        |
| South Korea                              | 3    | Romania                                   | 2      |
| SM53C <span>This grade's own name</span> | ks   | K410                                      | stas   |
| SPPV315                                  | ks   | OL44.3                                    | stas   |
| SPPV355                                  | ks   | Bulgaria                                  | 2      |
| Spain                                    | 2    | 16K                                       | bds    |
| A42RCI                                   | une  | P265GH                                    | bds    |
| A42RCII                                  | une  | Europe                                    | 1      |
| Russia / CIS                             | 2    | P280GH <span>This grade's own name</span> | din-en |
| 20K                                      | gost | Austria                                   | 1      |
| 20K                                      | gost | St41KW                                    | onorm  |
| Poland                                   | 2    | Belgium                                   | 1      |
| St3M                                     | pn   | D42-2                                     | nbn    |
| St41K                                    | pn   |                                           |        |

**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 St3M

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 | 1.0426       | Aug 20, 2026 |