

MATERIAL NUMBER 1.0144 · CLASS 1.0

# BSt4kp

## Material no. 1.0144

also listed as S275J2

Chemical composition, mechanical and physical property values, and 64 standard designations from 22 regions.

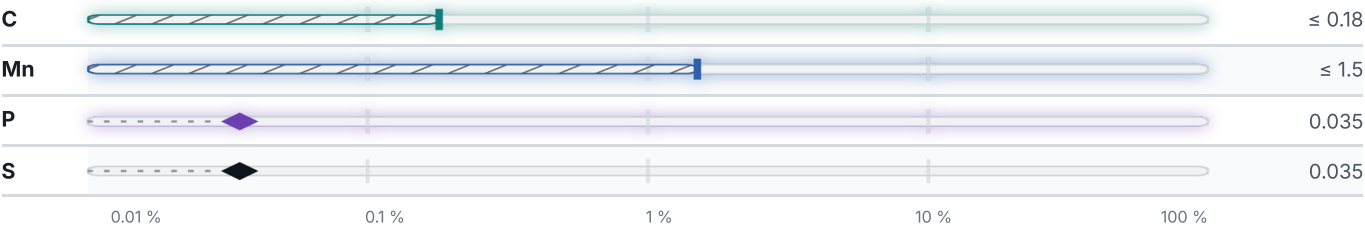
|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>64</b> in 22 regions | PROPERTY VALUES<br><b>6</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

Chemical composition

Mass fraction in %



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

31 values across 4 conditions

| FLAT AND LONG PRODUCTS | REH<br>N/mm <sup>2</sup> | RM<br>N/mm <sup>2</sup> |
|------------------------|--------------------------|-------------------------|
| ≤ 3                    | —                        | 430–580                 |

| FLAT AND LONG PRODUCTS      | REH<br>N/mm <sup>2</sup> | RM<br>N/mm <sup>2</sup> |         |
|-----------------------------|--------------------------|-------------------------|---------|
| 3 – 100                     | –                        | 410–560                 |         |
| ≤ 16                        | 275                      | –                       |         |
| 16 – 40                     | 265                      | –                       |         |
| 40 – 63                     | 255                      | –                       |         |
| 63 – 80                     | 245                      | –                       |         |
| 80 – 100                    | 235                      | –                       |         |
| 100 – 150                   | 225                      | 400–540                 |         |
| 150 – 250                   | –                        | 380–540                 |         |
| 150 – 200                   | 215                      | –                       |         |
| 200 – 250                   | 205                      | –                       |         |
| CONDITION · DIMENSION       | A80<br>% · Lo = 80 mm    | A<br>% · Lo = 5,65 √So  |         |
| ≤ 1                         | 15                       | –                       |         |
| 1 – 1.5                     | 16                       | –                       |         |
| 1.5 – 2                     | 17                       | –                       |         |
| 2 – 2.5                     | 18                       | –                       |         |
| 2.5 – 3                     | 19                       | –                       |         |
| 3 – 40                      | –                        | 23                      |         |
| 40 – 63                     | –                        | 22                      |         |
| 63 – 100                    | –                        | 21                      |         |
| 100 – 150                   | –                        | 19                      |         |
| 150 – 250                   | –                        | 18                      |         |
| CONDITION · DIMENSION       | RM<br>N/mm <sup>2</sup>  | RE<br>N/mm <sup>2</sup> | A5<br>% |
| Pipe, GOST 10705-80         | 412                      | 245                     | 21      |
| Rolled stock, GOST 535-2005 | 400–510                  | 225–255                 | 22–25   |
| CONDITION · DIMENSION       | RM<br>N/mm <sup>2</sup>  | RE<br>N/mm <sup>2</sup> | A<br>%  |
| Hot-rolled                  | 400–510                  | 195–245                 | 18–24   |

Physical properties

2 values

| CONDITION · DIMENSION |  | RHO<br>g/cm³ |       |
|-----------------------|--|--------------|-------|
| 20                    |  | 7.85         |       |
| PROPERTY              |  | VALUE        | UNIT  |
| Density               |  | 7.85         | g/cm³ |

Technological properties

| PROPERTY    |  | VALUE                | UNIT |
|-------------|--|----------------------|------|
| Weldability |  | limited weldability. |      |

Designations across standards

64 designations · 8 documented as identical

|                |                       |          |               |  |      |
|----------------|-----------------------|----------|---------------|--|------|
| United States  |                       | 10       | Italy         |  | 4    |
| K02601         | This grade's own name | uns      | Fe430B        |  | uni  |
| K02702         | This grade's own name | uns      | Fe430C(FN)    |  | uni  |
| K03000         | This grade's own name | uns      | Fe430D        |  | uni  |
| A572           |                       | aisi-sae | Fe430D(FF)    |  | uni  |
| A573           |                       | aisi-sae |               |  |      |
| A573-81        |                       | aisi-sae | Sweden        |  | 4    |
| A573Gr.70      |                       | aisi-sae | 1411          |  | ss   |
| A611Gr.D       |                       | aisi-sae | 1412          |  | ss   |
| A633Gr.A       |                       | aisi-sae | 1414          |  | ss   |
| K03000         |                       | aisi-sae | 1414-00       |  | ss   |
| Europe         |                       | 9        | International |  | 3    |
| 1.0144         |                       | din-en   | E275-A        |  | iso  |
| A633Gr.A       |                       | din-en   | Fe430-A       |  | iso  |
| Fe430D1        |                       | din-en   | Fe430D        |  | iso  |
| S275J2         | This grade's own name | din-en   |               |  |      |
| S275J2(+N)     |                       | din-en   | Japan         |  | 3    |
| S275J2G3       |                       | din-en   | SM400A        |  | jis  |
| S275J2G3C      | This grade's own name | din-en   | SM400B        |  | jis  |
| St 44-3 N      | This grade's own name | din-en   | SM400C        |  | jis  |
| St.44.2        |                       | din-en   |               |  |      |
| United Kingdom |                       | 6        | Russia / CIS  |  | 3    |
| 4360 43 C      |                       | bs       | St4kp         |  | gost |
| 43C            |                       | bs       | St4ps         |  | gost |
| 43D            |                       | bs       | Ct4kn         |  | gost |
| Fe430D1FF      |                       | bs       | Czechia       |  | 3    |
| S275J2G3       |                       | bs       | 11 448        |  | csn  |
| S275N          |                       | bs       | 11423         |  | csn  |
|                |                       |          | 11428         |  | csn  |

|                                           |       |                 |       |
|-------------------------------------------|-------|-----------------|-------|
| <b>France</b>                             | 2     | <b>Norway</b>   | 1     |
| E28-3                                     | afnor | NS12-143        | ns    |
| E28-4                                     | afnor |                 |       |
| <b>Spain</b>                              | 2     | <b>Portugal</b> | 1     |
| AE275D                                    | une   | Fe430-D         | np    |
| Fe430D1FF                                 | une   |                 |       |
| <b>Poland</b>                             | 2     | <b>China</b>    | 1     |
| St4SW                                     | pn    | Q255            | gb    |
| St4SX                                     | pn    |                 |       |
| <b>Bulgaria</b>                           | 2     | <b>Serbia</b>   | 1     |
| BSt4kp                                    | bds   | Č.0452          | srps  |
| WSt4kp                                    | bds   |                 |       |
| <b>Belgium</b>                            | 2     | <b>Romania</b>  | 1     |
| AE255D                                    | nbn   | OL42.1          | stas  |
| FE430D1FF                                 | nbn   |                 |       |
| <b>South Korea</b>                        | 2     | <b>Austria</b>  | 1     |
| SM400A <span>This grade's own name</span> | ks    | St430D          | onorm |
| SM400C <span>This grade's own name</span> | ks    | <b>Finland</b>  | 1     |
|                                           |       | Fe44D           | sfs   |

**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 BSt4kp

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#### DATASHEET ONLINE

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#### MATERIAL NO.

1.0144

#### ISSUED

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