

MATERIAL NUMBER 1.1121 · CLASS 1.1

# CS12

## Material no. 1.1121

also listed as C10E

Chemical composition, mechanical and physical property values, and 61 standard designations from 22 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>61</b> in 22 regions | PROPERTY VALUES<br><b>7</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

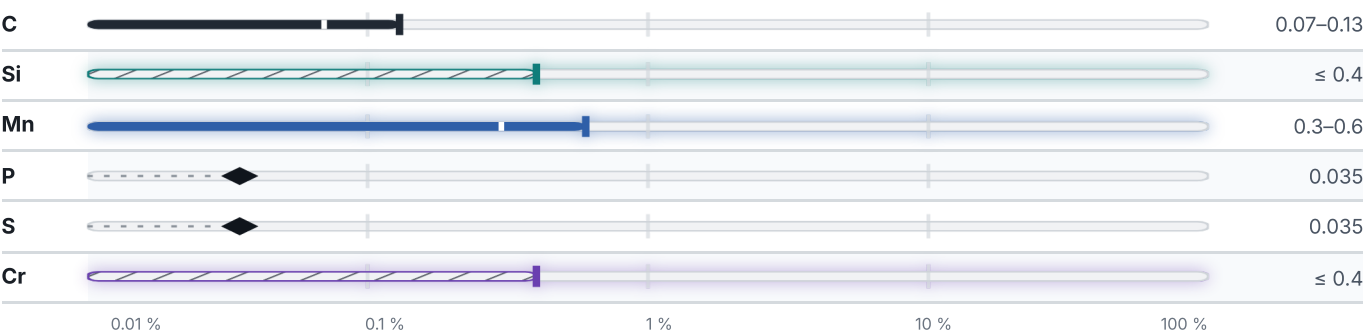
### Chemical composition

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, Mo.

## Mechanical properties

4 values across 3 conditions

| SOFT ANNEALED | HB     | HRB |
|---------------|--------|-----|
| Soft annealed | 131    | 73  |
| NORMALIZED    | HB     |     |
| Normalized    | 85–140 |     |
| COLD ROLLED   | HV     |     |
| Cold rolled   | 250    |     |

## Physical properties

1 values

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

## Designations across standards

61 designations · 4 documented as identical

| United States  |                       | 7        | Spain                   |  | 5      |
|----------------|-----------------------|----------|-------------------------|--|--------|
| G10100         | This grade's own name | uns      | C10E                    |  | une    |
| 1008           |                       | aisi-sae | C10k                    |  | une    |
| 1010           | This grade's own name | aisi-sae | F.151                   |  | une    |
| 1011           |                       | aisi-sae | F.1510                  |  | une    |
| G10080         |                       | aisi-sae | F.1510-C 10 k           |  | une    |
| G10100         |                       | aisi-sae |                         |  |        |
| M1010          |                       | aisi-sae |                         |  |        |
| United Kingdom |                       | 6        | France                  |  | 4      |
| 040A10         |                       | bs       | AF-34                   |  | afnor  |
| 045A10         |                       | bs       | C10RR                   |  | afnor  |
| 045M10         |                       | bs       | XC10                    |  | afnor  |
| C10 C10E C10R  |                       | bs       | XC12                    |  | afnor  |
| C10E           |                       | bs       |                         |  |        |
| CS12           |                       | bs       |                         |  |        |
| Japan          |                       | 6        | Italy                   |  | 4      |
| S09CK          |                       | jis      | 2C10                    |  | uni    |
| S09CX          |                       | jis      | 2C15                    |  | uni    |
| S10C           |                       | jis      | C10                     |  | uni    |
| S9CK           |                       | jis      | C15                     |  | uni    |
| SPHE           |                       | jis      |                         |  |        |
| SWR1           |                       | jis      |                         |  |        |
|                |                       |          | Australia / New Zealand |  | 4      |
|                |                       |          | 1010                    |  | as-nzs |
|                |                       |          | A1010                   |  | as-nzs |
|                |                       |          | CA1010                  |  | as-nzs |
|                |                       |          | HA1010                  |  | as-nzs |

|                                          |        |
|------------------------------------------|--------|
| <b>Europe</b>                            | 3      |
| C10E <span>This grade's own name</span>  | din-en |
| Ck 10 <span>This grade's own name</span> | din-en |
| Ck15                                     | din-en |
| <b>International</b>                     | 3      |
| C10                                      | iso    |
| C15M2                                    | iso    |
| S10C                                     | iso    |
| <b>China</b>                             | 3      |
| 08                                       | gb     |
| 08F                                      | gb     |
| 10                                       | gb     |
| <b>Russia / CIS</b>                      | 2      |
| 08                                       | gost   |
| 10                                       | gost   |
| <b>Sweden</b>                            | 2      |
| 1146                                     | ss     |
| 1265                                     | ss     |
| <b>Poland</b>                            | 2      |
| 08X                                      | pn     |
| 10                                       | pn     |

|                    |       |
|--------------------|-------|
| <b>South Korea</b> | 2     |
| SM10C              | ks    |
| SM9CK              | ks    |
| <b>Czechia</b>     | 1     |
| 12010              | csn   |
| <b>Slovakia</b>    | 1     |
| 12 010             | stn   |
| <b>Hungary</b>     | 1     |
| C10                | msz   |
| <b>Romania</b>     | 1     |
| OLC10X             | stas  |
| <b>Bulgaria</b>    | 1     |
| 08                 | bds   |
| <b>Austria</b>     | 1     |
| RC12               | onorm |
| <b>Belgium</b>     | 1     |
| C10-2              | nbn   |
| <b>Switzerland</b> | 1     |
| Ck10               | snv   |

**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 CS12

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

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#### DATASHEET ONLINE

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#### GRADE SEARCH

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#### ISSUED

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