

MATERIAL NUMBER 1.0401 · CLASS 1.0

# OLC15X

Material no. 1.0401

also listed as C15

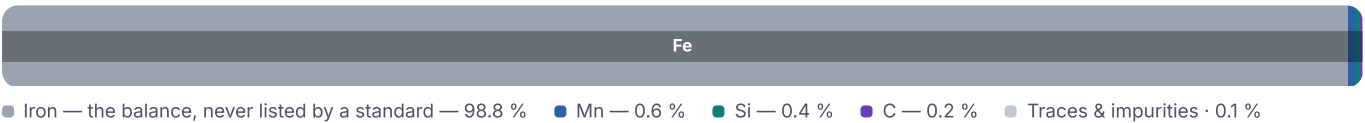
Chemical composition, mechanical and physical property values, and 62 standard designations from 23 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>62</b> in 23 regions | PROPERTY VALUES<br><b>6</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

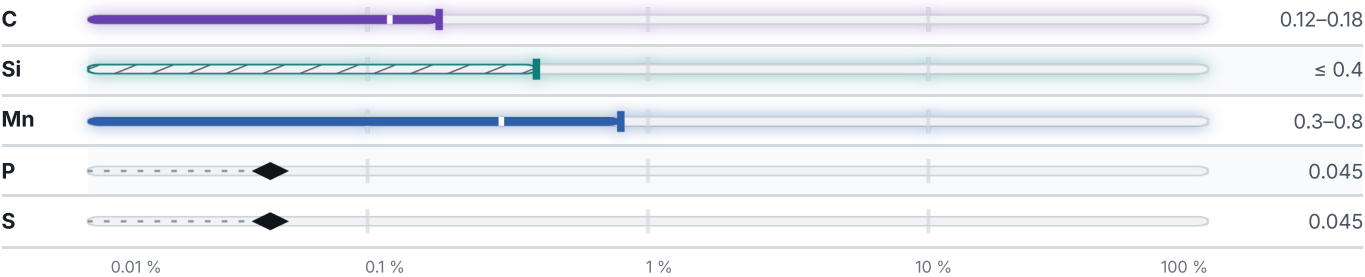
Chemical composition

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

11 values across 2 conditions

| COLD DRAWN / HARD | RM<br>N/mm <sup>2</sup> | A<br>% |
|-------------------|-------------------------|--------|
| 5 – 10            | 500–800                 | 7      |

| COLD DRAWN / HARD    | RM<br>N/mm <sup>2</sup> | A<br>% |
|----------------------|-------------------------|--------|
| 10 – 16              | 480–780                 | 8      |
| 16 – 40              | 430–730                 | 9      |
| 40 – 63              | 380–670                 | 11     |
| 63 – 100             | 340–600                 | 12     |
| AS ROLLED AND TURNED |                         | HB     |
| As rolled and turned |                         | 98–178 |

## Physical properties

1 values

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

## Designations across standards

62 designations · 5 documented as identical

|                      |                       |          |                                |                       |        |
|----------------------|-----------------------|----------|--------------------------------|-----------------------|--------|
| <b>United States</b> |                       | 10       | <b>United Kingdom</b>          |                       | 5      |
| G10150               | This grade's own name | uns      | 040A15                         |                       | bs     |
| G10170               | This grade's own name | uns      | 080A15                         |                       | bs     |
| 1015                 | This grade's own name | aisi-sae | 080M15                         |                       | bs     |
| 1016                 |                       | aisi-sae | 095M15                         |                       | bs     |
| 1017                 | This grade's own name | aisi-sae | C15E                           |                       | bs     |
| 1018                 |                       | aisi-sae |                                |                       |        |
| G10150               |                       | aisi-sae | <b>Japan</b>                   |                       | 4      |
| G10170               |                       | aisi-sae | S15                            |                       | jis    |
| M1015                |                       | aisi-sae | S15C                           |                       | jis    |
| M1017                |                       | aisi-sae | S15CK                          |                       | jis    |
|                      |                       |          | S17C                           |                       | jis    |
| <b>France</b>        |                       | 6        | <b>Europe</b>                  |                       | 3      |
| AF37C12              |                       | afnor    | 1.0401                         |                       | din-en |
| C18RR                |                       | afnor    | C15                            | This grade's own name | din-en |
| CC12                 |                       | afnor    | Ck15                           |                       | din-en |
| XC12                 |                       | afnor    |                                |                       |        |
| XC15                 |                       | afnor    |                                |                       |        |
| XC18                 |                       | afnor    | <b>China</b>                   |                       | 3      |
|                      |                       |          | 15                             |                       | gb     |
| <b>Spain</b>         |                       | 6        | H15A                           |                       | gb     |
| C15E                 |                       | une      | ZG200-400                      |                       | gb     |
| C15k                 |                       | une      |                                |                       |        |
| C16k                 |                       | une      | <b>Australia / New Zealand</b> |                       | 3      |
| F.111                |                       | une      | K1015                          |                       | as-nzs |
| F.1110               |                       | une      | K1018                          |                       | as-nzs |
| F.1511               |                       | une      | K1020                          |                       | as-nzs |

|                     |      |                      |        |
|---------------------|------|----------------------|--------|
| <b>Romania</b>      | 3    | <b>Latin America</b> | 1      |
| OLC15               | stas | 1016                 | copant |
| OLC15AT             | stas |                      |        |
| OLC15X              | stas | <b>Poland</b>        | 1      |
|                     |      | 15                   | pn     |
| <b>Russia / CIS</b> | 2    | <b>Serbia</b>        | 1      |
| 15                  | gost | Č.1220               | srps   |
| ct15                | gost |                      |        |
| <b>Italy</b>        | 2    | <b>Croatia</b>       | 1      |
| C15                 | uni  | Č.1220               | hrn    |
| C16                 | uni  |                      |        |
| <b>Sweden</b>       | 2    | <b>Hungary</b>       | 1      |
| 1350                | ss   | C15                  | msz    |
| 1370                | ss   |                      |        |
| <b>Czechia</b>      | 2    | <b>Bulgaria</b>      | 1      |
| 12020               | csn  | 15                   | bds    |
| 12023               | csn  | <b>Austria</b>       | 1      |
|                     |      | RC15                 | onorm  |
| <b>South Korea</b>  | 2    | <b>Belgium</b>       | 1      |
| SM15C               | ks   | C16-2                | nbn    |
| SM15CK              | ks   |                      |        |
|                     |      | <b>Switzerland</b>   | 1      |
|                     |      | Ck15                 | 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 OLC15X

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

[Start an enquiry](#)

#### DATASHEET ONLINE

View the material page

#### GRADE SEARCH

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#### MATERIAL NO.

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#### ISSUED

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