

MATERIAL NUMBER 1.0601 · CLASS 1.0

# OLC60X

Material no. 1.0601

also listed as C60

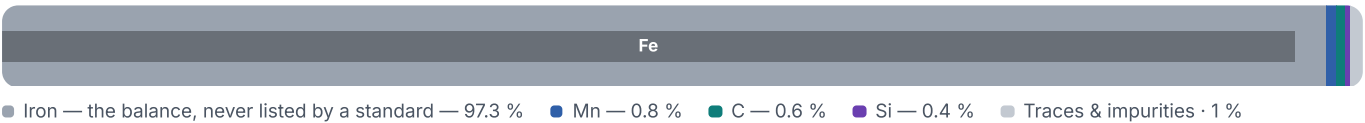
Chemical composition, mechanical and physical property values, and 92 standard designations from 25 regions.

|                                          |                                               |                                      |
|------------------------------------------|-----------------------------------------------|--------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>92</b> in 25 regions | PROPERTY VALUES<br><b>16</b> on file |
|------------------------------------------|-----------------------------------------------|--------------------------------------|

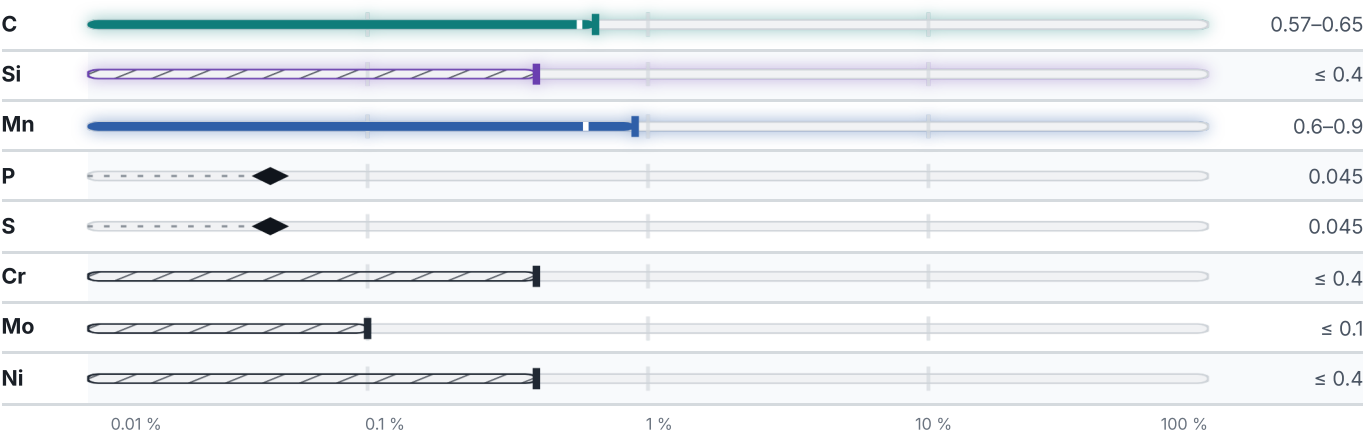
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

## Mechanical properties

28 values across 7 conditions

| CONDITION · DIMENSION                         | RM<br>N/mm <sup>2</sup> | A5<br>%                 | HB      |         |
|-----------------------------------------------|-------------------------|-------------------------|---------|---------|
| Band cold-worked , GOST 2283-79               | 740–1180                | –                       | –       |         |
| Band annealed , GOST 2283-79                  | 640–740                 | 10–15                   | –       |         |
| (without heat treatment) , GOST 14959         | –                       | –                       | 285     |         |
| (heat treatment) , Rolled stock GOST 14959-79 | –                       | –                       | 241     |         |
| (normalize) , Sheet trick GOST 1577-93        | –                       | –                       | 269     |         |
| (annealing) , Sheet trick GOST 1577-93        | –                       | –                       | 229     |         |
| NORMALIZED                                    | RM<br>N/mm <sup>2</sup> | A<br>%                  |         |         |
| ≤ 16                                          | 710                     | 10                      |         |         |
| 16 – 100                                      | 670                     | 11                      |         |         |
| 100 – 250                                     | 650                     | 11                      |         |         |
| 250 – 500                                     | 630                     | –                       |         |         |
| 500 – 1000                                    | 620                     | –                       |         |         |
| COLD DRAWN / HARD                             | RM<br>N/mm <sup>2</sup> | A<br>%                  |         |         |
| 5 – 10                                        | 800–1150                | 5                       |         |         |
| 10 – 16                                       | 780–1130                | 5                       |         |         |
| 16 – 40                                       | 730–1100                | 6                       |         |         |
| CONDITION · DIMENSION                         | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>%  |
| Rolled stock, GOST 14959-79                   | 980                     | 785                     | 8       | 30      |
| TREATED TO IMPROVE SHEARABILITY               |                         |                         |         | HB      |
| Treated to improve shearability               |                         |                         |         | 255     |
| SOFT ANNEALED                                 |                         |                         |         | HB      |
| Soft annealed                                 |                         |                         |         | 241     |
| AS ROLLED AND TURNED                          |                         |                         |         | HB      |
| As rolled and turned                          |                         |                         |         | 198–278 |

Physical properties

8 values

| CONDITION · DIMENSION    | RHO<br>g/cm³ | E<br>GPa | ALPHA<br>10 <sup>-6</sup> /K | CP<br>J/(kg·K) |
|--------------------------|--------------|----------|------------------------------|----------------|
| 20                       | 7.81         | 204      | –                            | –              |
| 100                      | –            | –        | 11.6                         | 483            |
| 200                      | –            | –        | 11.9                         | 487            |
| 300                      | –            | –        | 12.9                         | –              |
| 400                      | –            | –        | 13.8                         | 529            |
| 600                      | –            | –        | 14.6                         | 575            |
| PROPERTY                 |              |          | VALUE                        | UNIT           |
| Density                  |              |          | 7.85                         | g/cm³          |
| Transformation point Ac1 |              |          | 726                          | °C             |
| Transformation point Ac3 |              |          | 765                          | °C             |
| Transformation point Ar3 |              |          | 741                          | °C             |
| Transformation point Ar1 |              |          | 689                          | °C             |

Technological properties

| PROPERTY           | VALUE              | UNIT |
|--------------------|--------------------|------|
| Weldability        | is not used.       |      |
| Flake sensitivity  | weakly predisposed |      |
| Temper brittleness | predisposed        |      |

Designations across standards

92 designations · 3 documented as identical

| United Kingdom |    | 14 | United States |                       | 13       |
|----------------|----|----|---------------|-----------------------|----------|
| 060A2          | bs |    | G10550        |                       | uns      |
| 060A62         | bs |    | G10600        | This grade's own name | uns      |
| 070M60         | bs |    | 1050          |                       | aisi-sae |
| 080A62         | bs |    | 1055          |                       | aisi-sae |
| 080A62-EN      | bs |    | 1059          |                       | aisi-sae |
| 1449-CS        | bs |    | 1060          | This grade's own name | aisi-sae |
| 1449-HS        | bs |    | 1064          |                       | aisi-sae |
| 43D            | bs |    | 1561          |                       | aisi-sae |
| 60CS           | bs |    | C1060         |                       | aisi-sae |
| 60HS           | bs |    | G10590        |                       | aisi-sae |
| C60            | bs |    | G10600        |                       | aisi-sae |
| C60E           | bs |    | G10640        |                       | aisi-sae |
| CS60           | bs |    | G15610        |                       | aisi-sae |
| EN43D          | bs |    |               |                       |          |

| France       | 12    |
|--------------|-------|
| 1C60         | afnor |
| 2C60         | afnor |
| AF70         | afnor |
| AF70C55      | afnor |
| C60          | afnor |
| C60E         | afnor |
| C60RR        | afnor |
| CC55         | afnor |
| CC60         | afnor |
| XC55         | afnor |
| XC60         | afnor |
| XC65         | afnor |
| Russia / CIS | 11    |
| 60           | gost  |
| 60 60Г       | gost  |
| 60G          | gost  |
| 60KhFA       | gost  |
| 60KHG        | gost  |
| 60KhGL       | gost  |
| 60KHN        | gost  |
| 60KHSMF      | gost  |
| T60          | gost  |
| CT.60        | gost  |
| CT.60Г       | gost  |
| Poland       | 5     |
| 55           | pn    |
| 60           | pn    |
| 60G          | pn    |
| 60rs         | pn    |
| D55          | pn    |
| Japan        | 4     |
| S58C         | jis   |
| S60C-CSP     | jis   |
| S65C-CSP     | jis   |
| SWR-7        | jis   |
| Italy        | 4     |
| 1C60         | uni   |
| C60          | uni   |
| C60E         | uni   |
| C60R         | uni   |

| Bulgaria                               | 4      |
|----------------------------------------|--------|
| 60                                     | bds    |
| 60G                                    | bds    |
| C60                                    | bds    |
| C60E                                   | bds    |
| Spain                                  | 3      |
| C60                                    | une    |
| C60E                                   | une    |
| F.115                                  | une    |
| Romania                                | 3      |
| OLC60                                  | stas   |
| OLC60AT                                | stas   |
| OLC60X                                 | stas   |
| Europe                                 | 2      |
| 1.0601                                 | din-en |
| C60 <span>This grade's own name</span> | din-en |
| Sweden                                 | 2      |
| 1665                                   | ss     |
| 1678                                   | ss     |
| Belgium                                | 2      |
| C60-1                                  | nbn    |
| C60-2                                  | nbn    |
| Switzerland                            | 2      |
| C60                                    | snv    |
| Ck60                                   | snv    |
| International                          | 1      |
| C60                                    | iso    |
| China                                  | 1      |
| 60                                     | gb     |
| Czechia                                | 1      |
| 12061                                  | csn    |
| Latin America                          | 1      |
| 1060                                   | copant |
| Slovakia                               | 1      |
| 12 061                                 | stn    |
| Serbia                                 | 1      |
| Č.1730                                 | srps   |

|                         |        |             |       |
|-------------------------|--------|-------------|-------|
| Croatia                 | 1      | Austria     | 1     |
| Č.1730                  | hrn    | BOHLERV960  | onorm |
| Hungary                 | 1      | South Korea | 1     |
| C60E                    | msz    | SM58C       | ks    |
| Australia / New Zealand | 1      |             |       |
| 1060                    | as-nzs |             |       |

**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 OLC60X

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

[Start an enquiry](#)

|                        |                   |              |             |
|------------------------|-------------------|--------------|-------------|
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