

MATERIAL NUMBER 1.7015 · CLASS 1.7

# 15Ch

## Material no. 1.7015

also listed as 15Cr3

Chemical composition, mechanical and physical property values, and 36 standard designations from 14 regions.

|                              |                                               |                                     |
|------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm³ | OTHER DESIGNATIONS<br><b>36</b> in 14 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------|-----------------------------------------------|-------------------------------------|

Chemical composition

Mass fraction in %



### Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

## Physical properties

1 values

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

## Heat treatment

9 regimes

| STEP                                                  | TEMPERATURE            | MEDIUM |
|-------------------------------------------------------|------------------------|--------|
| source joins the operations with + / procedural order |                        |        |
| Normalizing                                           | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |
| Carburizing                                           | Temperature not stated | —      |
| Quenching                                             | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Quenching                                             | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Annealing                                             | Temperature not stated | —      |
| Annealing                                             | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |
| Normalizing                                           | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |
| Spheroidize annealing                                 | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Quenching                                             | 860 °C                 | —      |
| Quenching                                             | 780 °C                 | Water  |
| Tempering                                             | 200 °C                 | Air    |
| source joins the operations with (or)                 |                        |        |
| Annealing                                             | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |
| Annealing                                             | Temperature not stated | —      |

Designations across standards

36 designations · 3 documented as identical

|                |                               |                 |                             |
|----------------|-------------------------------|-----------------|-----------------------------|
| United States8 |                               | Europe2         |                             |
| G50150         | This grade's own nameuns      | 1.7015          | din-en                      |
| 5015           | This grade's own nameaisi-sae | 15Cr3           | This grade's own namedin-en |
| 5115           | aisi-sae                      | United Kingdom2 |                             |
| G50150         | aisi-sae                      | 17Cr3bs         |                             |
| G51150         | aisi-sae                      | 523M15bs        |                             |
| G51170         | aisi-sae                      | Japan2          |                             |
| G61180         | aisi-sae                      | SCr415jis       |                             |
| 5115           | astm                          | SCr415Hjis      |                             |
| Russia / CIS6  |                               | South Korea2    |                             |
| 15Ch           | gost                          | SCr415ks        |                             |
| 15KH           | gost                          | SCr415Hks       |                             |
| 15KHA          | gost                          | Spain1          |                             |
| 15X            | gost                          | 17Cr3une        |                             |
| 15X            | gost                          | Czechia1        |                             |
| cT.15X         | gost                          | 14120csn        |                             |
| France5        |                               | Poland1         |                             |
| 12C3           | afnor                         | 15Hpn           |                             |
| 12C8           | afnor                         | Romania1        |                             |
| 15Cr2RR        | afnor                         | 15Cr9qstas      |                             |
| 17Cr3          | afnor                         | Bulgaria1       |                             |
| 18C3           | afnor                         | 15Chbds         |                             |
| China3         |                               | Belgium1        |                             |
| 15Cr           | gb                            | 15Cr2nbn        |                             |
| 15CrA          | gb                            |                 |                             |
| ML15Cr         | gb                            |                 |                             |

**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 15Ch

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

Start an enquiry

|                        |                   |              |              |
|------------------------|-------------------|--------------|--------------|
| DATASHEET ONLINE       | GRADE SEARCH      | MATERIAL NO. | ISSUED       |
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