

MATERIAL NUMBER 1.4436 · CLASS 1.4

# Z7CND18-12-3

## Material no. 1.4436

also listed as X3CrNiMo17-12-3

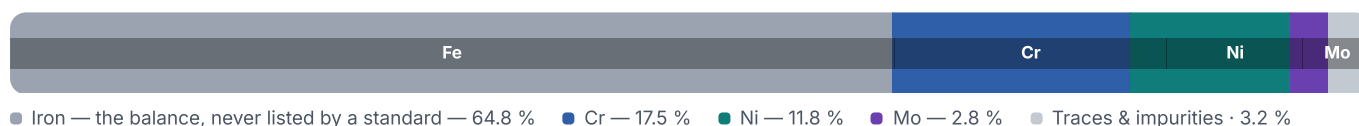
Chemical composition, mechanical and physical property values, and 118 standard designations from 18 regions.

| DENSITY                    | OTHER DESIGNATIONS       | PROPERTY VALUES   |
|----------------------------|--------------------------|-------------------|
| <b>8</b> g/cm <sup>3</sup> | <b>118</b> in 18 regions | <b>10</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

6 values across 3 conditions

| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A<br>% | Z<br>% |
|-----------------------|-------------------------|-------------------------|--------|--------|
| Bars/Rods             | 520                     | 205                     | 40     | 50     |
| SOFT ANNEALED         |                         |                         |        | HB     |
| Soft annealed         |                         |                         |        | 215    |
| SOLUTION ANNEALED     |                         |                         |        | HB     |
| Solution annealed     |                         |                         |        | 200    |

Physical properties

1 values

| PROPERTY | VALUE | UNIT              |
|----------|-------|-------------------|
| Density  | 8     | g/cm <sup>3</sup> |

## Designations across standards

118 designations · 4 documented as identical

| United States     |          | 63 | A943                             | astm |
|-------------------|----------|----|----------------------------------|------|
| S31600            | uns      |    | A965                             | astm |
| S31603            | uns      |    | A988                             | astm |
| S31673            | uns      |    | F 138                            | astm |
| 30316             | aisi-sae |    | F1667                            | astm |
| 316               | aisi-sae |    | F2215                            | astm |
| 316L              | aisi-sae |    | F2281                            | astm |
| S31600            | aisi-sae |    | F3184                            | astm |
| 316LVM            | astm     |    | F593                             | astm |
| A 167             | astm     |    | F594                             | astm |
| A 182 Grade F316  | astm     |    | F738                             | astm |
| A 312 Grade TP316 | astm     |    | F836                             | astm |
| A 403 Grade WP316 | astm     |    | F837                             | astm |
| A 479             | astm     |    | F879                             | astm |
| A1012             | astm     |    | F899                             | astm |
| A1022             | astm     |    | F957                             | astm |
| A1049             | astm     |    |                                  |      |
| A182              | astm     |    | <b>Japan</b>                     | 10   |
| A193              | astm     |    | SUS 316A                         | jis  |
| A194              | astm     |    | SUS 316F                         | jis  |
| A213              | astm     |    | SUS 316FB                        | jis  |
| A240              | astm     |    | SUS 316TB                        | jis  |
| A249              | astm     |    | SUS 316TBS                       | jis  |
| A264              | astm     |    | SUS 316TKA                       | jis  |
| A269              | astm     |    | SUS 316TKC                       | jis  |
| A270              | astm     |    | SUS F 316                        | jis  |
| A271              | astm     |    | SUS316                           | jis  |
| A276              | astm     |    | SUS316L                          | jis  |
| A312              | astm     |    |                                  |      |
| A313              | astm     |    | <b>United Kingdom</b>            | 9    |
| A314              | astm     |    | 316 S 19                         | bs   |
| A320              | astm     |    | 316 S 31                         | bs   |
| A336              | astm     |    | 316 S 40                         | bs   |
| A358              | astm     |    | 316 S 41                         | bs   |
| A368              | astm     |    | 316S13                           | bs   |
| A376              | astm     |    | 316S16                           | bs   |
| A403              | astm     |    | 316S33                           | bs   |
| A409              | astm     |    | LW 23                            | bs   |
| A430              | astm     |    | LWCF 23                          | bs   |
| A580              | astm     |    |                                  |      |
| A632              | astm     |    | <b>United States / Aerospace</b> | 7    |
| A666              | astm     |    | 5507                             | ams  |
| A688              | astm     |    | 5524                             | ams  |
| A793              | astm     |    | 5573                             | ams  |
| A813              | astm     |    | 5648                             | ams  |
| A814              | astm     |    | 5653                             | ams  |
| A826              | astm     |    | 5690                             | ams  |
| A831              | astm     |    | 5691                             | ams  |

|                                                    |        |                          |       |
|----------------------------------------------------|--------|--------------------------|-------|
| <b>France</b>                                      | 6      | <b>Poland</b>            | 2     |
| Z6CND17.12                                         | afnor  | 00H17N14M2               | pn    |
| Z6CND18-12-03                                      | afnor  | H17N14M2                 | pn    |
| Z6CND18-13                                         | afnor  |                          |       |
| Z7CND17-12-02                                      | afnor  | <b>International</b>     | 1     |
| Z7CND18-12-3                                       | afnor  | Type20a                  | iso   |
| Z7CND18.12.03                                      | afnor  |                          |       |
| <b>Europe</b>                                      | 4      | <b>China</b>             | 1     |
| 1.4436                                             | din-en | 0Cr17Ni12Mo2             | gb    |
| X3CrNiMo17-12-3 <span>This grade's own name</span> | din-en | <b>Czechia</b>           | 1     |
| X3CrNiMo17-13-3 <span>This grade's own name</span> | din-en | 17352                    | csn   |
| X5CrNiMo17-13-3 <span>This grade's own name</span> | din-en |                          |       |
| <b>Spain</b>                                       | 4      | <b>Slovakia</b>          | 1     |
| F.3534                                             | une    | 17 352                   | stn   |
| F.3534-X 6 CrNiMo 17-12-03                         | une    |                          |       |
| F.3538                                             | une    | <b>Brazil</b>            | 1     |
| X5CrNiMo 17 13 3                                   | une    | 316                      | abnt  |
| <b>Sweden</b>                                      | 3      | <b>former Yugoslavia</b> | 1     |
| 2343                                               | ss     | Č.45706                  | jus   |
| 2347                                               | ss     |                          |       |
| SIS 2343 <span>This grade's own name</span>        | ss     | <b>Austria</b>           | 1     |
|                                                    |        | X5CrNiMo17-13-3KW        | onorm |
| <b>Italy</b>                                       | 2      | <b>Finland</b>           | 1     |
| X5CrNiMo17-13                                      | uni    | 757                      | sfs   |
| X8CrNiMo1713                                       | uni    |                          |       |

**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 Z7CND18-12-3

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

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#### GRADE SEARCH

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#### MATERIAL NO.

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#### ISSUED

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