

MATERIAL NUMBER 1.4404 · CLASS 1.4

# X2CrNiMo17-13KG

Material no. 1.4404

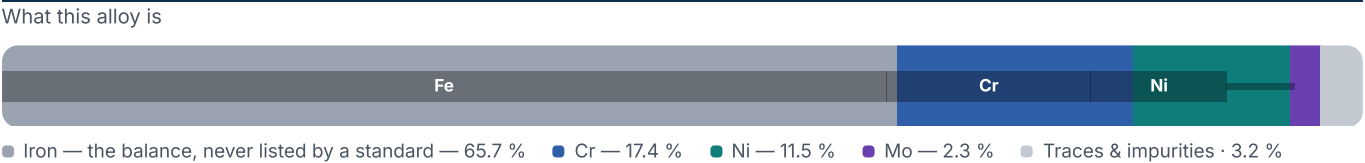
also listed as X2CrNiMo17-12-2

Chemical composition, mechanical and physical property values, and 147 standard designations from 24 regions.

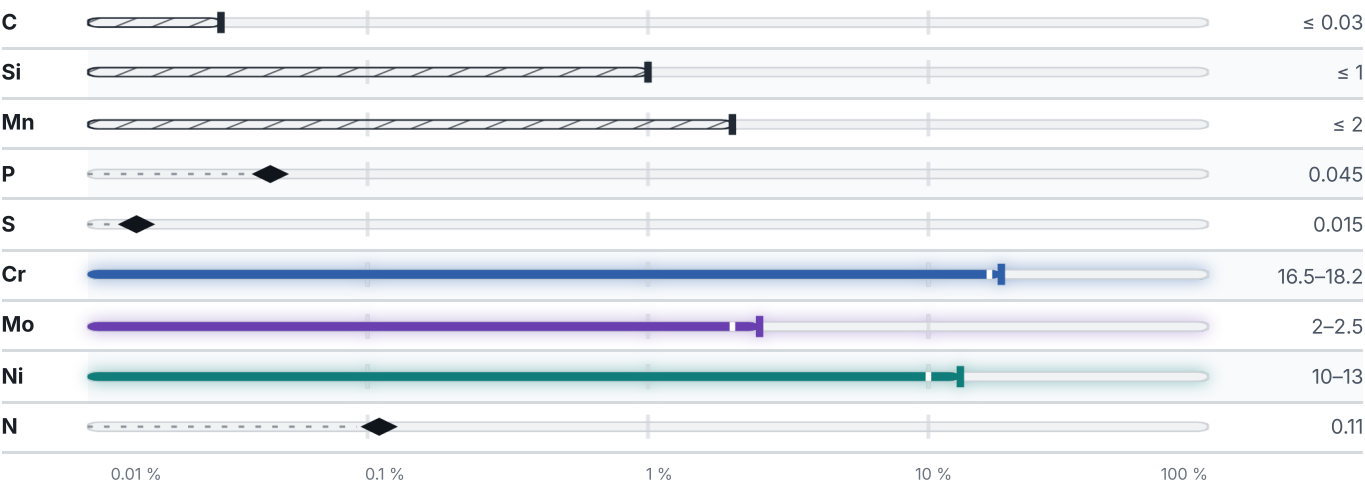
|                    |                                         |                               |
|--------------------|-----------------------------------------|-------------------------------|
| DENSITY<br>8 g/cm³ | OTHER DESIGNATIONS<br>147 in 24 regions | PROPERTY VALUES<br>10 on file |
|--------------------|-----------------------------------------|-------------------------------|

Chemical composition

Mass fraction in %



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

8 values across 3 conditions

| CONDITION · DIMENSION  | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A<br>% | HB  | HRB | HV  |
|------------------------|-------------------------|-------------------------|--------|-----|-----|-----|
| Plate/Sheet Hot-rolled | 520                     | 205                     | 40     | –   | –   | –   |
| Hot-rolled             | –                       | –                       | –      | 187 | 90  | 200 |
| 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> |

## Heat treatment

5 regimes

| STEP                                                  | TEMPERATURE            | MEDIUM |
|-------------------------------------------------------|------------------------|--------|
| source joins the operations with + / procedural order |                        |        |
| Solution annealing                                    | Temperature not stated | —      |
| Solution annealing                                    | Temperature not stated | —      |
| Solution annealing                                    | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Solution annealing                                    | Temperature not stated | —      |
| Solution annealing                                    | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Solution annealing                                    | Temperature not stated | —      |
| Solution annealing                                    | Temperature not stated | —      |
| Quenching and tempering                               | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Solution annealing                                    | Temperature not stated | —      |
| Annealing                                             | Temperature not stated | —      |

147 designations · 4 documented as identical

|                                         |          |                 |       |
|-----------------------------------------|----------|-----------------|-------|
| United States                           | 56       | F2281           | astm  |
| S31600                                  | uns      | F593            | astm  |
| S31603 <div>This grade's own name</div> | uns      | F594            | astm  |
| 30316L                                  | aisi-sae | F738            | astm  |
| 316                                     | aisi-sae | F836            | astm  |
| 316L <div>This grade's own name</div>   | aisi-sae | F837            | astm  |
| J92700                                  | aisi-sae | F879            | astm  |
| J92800                                  | aisi-sae | TP316           | astm  |
| S31600                                  | aisi-sae | TP316L          | astm  |
| S31603                                  | aisi-sae |                 |       |
| S31673                                  | aisi-sae |                 |       |
| S31683                                  | aisi-sae |                 |       |
| A 182 Grade F316L                       | astm     |                 |       |
| A 312 Grade TP316L                      | astm     |                 |       |
| A 403 Grade WP316L                      | astm     |                 |       |
| A1022                                   | astm     |                 |       |
| A1049                                   | astm     |                 |       |
| A182                                    | astm     |                 |       |
| A213                                    | astm     |                 |       |
| A240                                    | astm     |                 |       |
| A249                                    | astm     |                 |       |
| A269                                    | astm     |                 |       |
| A270                                    | astm     |                 |       |
| A276                                    | astm     |                 |       |
| A312                                    | astm     |                 |       |
| A314                                    | astm     |                 |       |
| A336                                    | astm     |                 |       |
| A358                                    | astm     |                 |       |
| A403                                    | astm     |                 |       |
| A409                                    | astm     |                 |       |
| A473                                    | astm     |                 |       |
| A478                                    | astm     |                 |       |
| A479                                    | astm     |                 |       |
| A493                                    | astm     |                 |       |
| A511                                    | astm     |                 |       |
| A554                                    | astm     |                 |       |
| A580                                    | astm     |                 |       |
| A632                                    | astm     |                 |       |
| A666                                    | astm     |                 |       |
| A688                                    | astm     |                 |       |
| A774                                    | astm     |                 |       |
| A778                                    | astm     |                 |       |
| A793                                    | astm     |                 |       |
| A813                                    | astm     |                 |       |
| A814                                    | astm     |                 |       |
| A943                                    | astm     |                 |       |
| A965                                    | astm     |                 |       |
| A988                                    | astm     |                 |       |
|                                         |          | United Kingdom  | 18    |
|                                         |          | 316             | bs    |
|                                         |          | 316 S 30        | bs    |
|                                         |          | 316L            | bs    |
|                                         |          | 316S11          | bs    |
|                                         |          | 316S12          | bs    |
|                                         |          | 316S13          | bs    |
|                                         |          | 316S14          | bs    |
|                                         |          | 316S31          | bs    |
|                                         |          | 316S33          | bs    |
|                                         |          | 4S14            | bs    |
|                                         |          | LW22            | bs    |
|                                         |          | LWCF22          | bs    |
|                                         |          | S 161           | bs    |
|                                         |          | S.537           | bs    |
|                                         |          | S13             | bs    |
|                                         |          | S14             | bs    |
|                                         |          | X2CrNiMo17-12-3 | bs    |
|                                         |          | X2CrNiMo18-14-3 | bs    |
|                                         |          | France          | 15    |
|                                         |          | X2CrNiMo18-14-3 | afnor |
|                                         |          | X2CrNiMo18-15-4 | afnor |
|                                         |          | Z2CND17.12      | afnor |
|                                         |          | Z2CND18.13      | afnor |
|                                         |          | Z3CND17-11-02   | afnor |
|                                         |          | Z3CND17-12-02   | afnor |
|                                         |          | Z3CND17-12-03   | afnor |
|                                         |          | Z3CND17-12-2    | afnor |
|                                         |          | Z3CND18-12-03   | afnor |
|                                         |          | Z3CND18-14-03   | afnor |
|                                         |          | Z3CND18-14-08   | afnor |
|                                         |          | Z3CND18.12.02   | afnor |
|                                         |          | Z3CND19-15-04   | afnor |
|                                         |          | Z6CND18-12-03   | afnor |
|                                         |          | Z7CND17-11-02   | afnor |

|              |     |
|--------------|-----|
| <b>Japan</b> | 7   |
| SCS16        | jis |
| SUS 316LFB   | jis |
| SUS 316LTBS  | jis |
| SUS 316LTP   | jis |
| SUS F 316L   | jis |
| SUS316       | jis |
| SUS316L      | jis |

|                   |     |
|-------------------|-----|
| <b>Spain</b>      | 6   |
| 12-03             | une |
| F.310.K           | une |
| F.3533            | une |
| F.3533-X2CrNiMo17 | une |
| F.3537            | une |
| X2CrNiMo17132     | une |

|                  |     |
|------------------|-----|
| <b>Italy</b>     | 6   |
| 316LM1           | uni |
| X2CrNiMo17-12    | uni |
| X2CrNiMo17-13    | uni |
| X2CrNiMo17-13KG  | uni |
| X2CrNiMo17-17-12 | uni |
| X2CrNiMo18-14-3  | uni |

|                     |      |
|---------------------|------|
| <b>Russia / CIS</b> | 5    |
| 000X17H13M2         | gost |
| 03Ch17N13M2         | gost |
| 03KH17N14M3         | gost |
| 03X17H13M2          | gost |
| 03X17H14M3          | gost |

|                |     |
|----------------|-----|
| <b>Czechia</b> | 4   |
| 17346          | csn |
| 17349          | csn |
| 17350          | csn |
| 17359VN        | csn |

|                 |                              |
|-----------------|------------------------------|
| <b>Europe</b>   | 3                            |
| 1.4404          | din-en                       |
| X2CrNiMo17-12-2 | This grade's own name din-en |
| X2CrNiMo17-13-2 | This grade's own name din-en |

|                                  |     |
|----------------------------------|-----|
| <b>United States / Aerospace</b> | 3   |
| 5507                             | ams |
| 5584                             | ams |
| 5653                             | ams |

|                |    |
|----------------|----|
| <b>China</b>   | 3  |
| 00Cr17Ni14Mo2  | gb |
| 00Cr17Ni14Mo3  | gb |
| 0Cr18Ni12Mo2Ti | gb |

|               |    |
|---------------|----|
| <b>Sweden</b> | 3  |
| 2343          | ss |
| 2348          | ss |
| 2353          | ss |

|               |    |
|---------------|----|
| <b>Poland</b> | 3  |
| 00H17N13M2    | pn |
| 00H17N14M2    | pn |
| 00H17N14M2    | pn |

|                 |     |
|-----------------|-----|
| <b>Hungary</b>  | 2   |
| KO38LC          | msz |
| X2CrNiMo18-14-3 | msz |

|                    |       |
|--------------------|-------|
| <b>Austria</b>     | 2     |
| X2CrNiMo17-13-2KKW | onorm |
| X2CrNiMo18-14-3KW  | onorm |

|                 |     |
|-----------------|-----|
| <b>Finland</b>  | 2   |
| 750             | sfs |
| X2CrNiMo17-13-3 | sfs |

|                    |    |
|--------------------|----|
| <b>South Korea</b> | 2  |
| STS316L            | ks |
| STSF316L           | ks |

|                      |     |
|----------------------|-----|
| <b>International</b> | 1   |
| Type19               | iso |

|                 |     |
|-----------------|-----|
| <b>Slovakia</b> | 1   |
| 17 349          | stn |

|               |      |
|---------------|------|
| <b>Brazil</b> | 1    |
| 316 L         | abnt |

|                          |     |
|--------------------------|-----|
| <b>former Yugoslavia</b> | 1   |
| Č.45707                  | jus |

|                |      |
|----------------|------|
| <b>Romania</b> | 1    |
| 2MoNiCr175     | stas |

|                                |        |
|--------------------------------|--------|
| <b>Australia / New Zealand</b> | 1      |
| 316L                           | as-nzs |

|                 |     |
|-----------------|-----|
| <b>Bulgaria</b> | 1   |
| X2CrNiMo18-14-3 | bds |

**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.

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**MATERIAL NO.**  
1.4404

**ISSUED**  
Aug 20, 2026