

MATERIAL NUMBER 1.4841 · CLASS 1.4

# 30314

## Material no. 1.4841

also listed as X15CrNiSi25-20

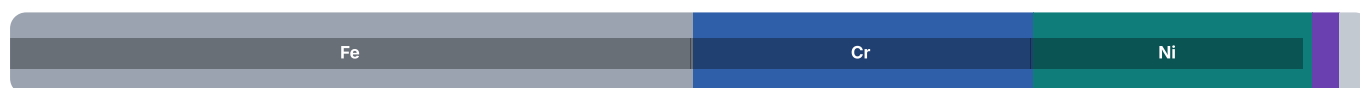
Chemical composition, mechanical and physical property values, and 60 standard designations from 16 regions.

**DENSITY****7.9** g/cm<sup>3</sup>**OTHER DESIGNATIONS****60** in 16 regions**PROPERTY VALUES****10** on file

### Chemical composition

Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 50.1 % ● Cr — 25 % ● Ni — 20.5 % ● Si — 2 % ● Traces & impurities · 2.4 %

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: Mo.

Mechanical properties

7 values across 3 conditions

| SOLUTION ANNEALED            |             |             |         | HB     |
|------------------------------|-------------|-------------|---------|--------|
| Solution annealed            |             |             |         | 223    |
| QUENCHING 1100 - 1150°C, AIR | RM<br>N/mm² | RE<br>N/mm² | A5<br>% | Z<br>% |
| Ø 60                         | 590         | 295         | 35      | 50     |
| CONDITION · DIMENSION        |             | RM<br>N/mm² | A5<br>% |        |
| Sheet thin, GOST 5582-75     |             | 490         | 35      |        |

Physical properties

2 values

| CONDITION · DIMENSION | RHO<br>g/cm³ | ALPHA<br>10 <sup>-6</sup> /K | LAMBDA<br>W/(m·K) |
|-----------------------|--------------|------------------------------|-------------------|
| 20                    | 7.72         | –                            | –                 |
| 100                   | 7.68         | 16.1                         | 15                |
| 500                   | –            | –                            | 22                |
| 600                   | –            | 17.8                         | 24                |
| 700                   | –            | 17.8                         | 25                |
| 800                   | 7.44         | 18.1                         | 27                |
| 900                   | 7.39         | 18.5                         | 29                |
| 1000                  | –            | 18.8                         | –                 |
| PROPERTY              | VALUE        |                              | UNIT              |
| Density               | 7.9          |                              | g/cm³             |

Technological properties

| PROPERTY           | VALUE       | UNIT |
|--------------------|-------------|------|
| Temper brittleness | predisposed |      |

## Designations across standards

60 designations · 6 documented as identical

|               |                       |          |                           |                       |        |
|---------------|-----------------------|----------|---------------------------|-----------------------|--------|
| United States |                       | 27       | Spain                     |                       | 3      |
| S31000        | This grade's own name | uns      | F.3310                    |                       | une    |
| S31400        | This grade's own name | uns      | F.3310-X15 CrNiSi 25-20   |                       | une    |
| S31500        |                       | uns      | X15CrNiSi25-20            |                       | une    |
| 30310         |                       | aisi-sae | Czechia                   |                       |        |
| 30314         |                       | aisi-sae | 3                         |                       |        |
| 310           | This grade's own name | aisi-sae | 17255                     |                       | csn    |
| 314           | This grade's own name | aisi-sae | 17265                     |                       | csn    |
| S31000        |                       | aisi-sae | 17265PH                   |                       | csn    |
| S31400        |                       | aisi-sae | Europe                    |                       |        |
| S31500        |                       | aisi-sae | 2                         |                       |        |
| 310 314       |                       | astm     | X15CrNiSi25-20            | This grade's own name | din-en |
| A1012         |                       | astm     | X15CrNiSi25-21            | This grade's own name | din-en |
| A1049         |                       | astm     | United Kingdom            |                       |        |
| A167          |                       | astm     | 2                         |                       |        |
| A182          |                       | astm     | 310S24                    |                       | bs     |
| A213          |                       | astm     | 314 S 25                  |                       | bs     |
| A240          |                       | astm     | United States / Aerospace |                       |        |
| A249          |                       | astm     | 2                         |                       |        |
| A276          |                       | astm     | 5652                      |                       | ams    |
| A312          |                       | astm     | 7490                      |                       | ams    |
| A314          |                       | astm     | Italy                     |                       |        |
| A336          |                       | astm     | 2                         |                       |        |
| A473          |                       | astm     | X16CrNiSi25-20            |                       | uni    |
| A580          |                       | astm     | X25CN25-20                |                       | uni    |
| A632          |                       | astm     | China                     |                       |        |
| A965          |                       | astm     | 1                         |                       |        |
| F2281         |                       | astm     | 2Cr25Ni20                 |                       | gb     |
| Russia / CIS  |                       | 6        | Sweden                    |                       | 1      |
| 20Ch25N20S2   |                       | gost     | 2376                      |                       | ss     |
| 20KH25N20S2   |                       | gost     | Slovakia                  |                       |        |
| 20X25H20C2    |                       | gost     | 1                         |                       |        |
| сг.20X25H20C2 |                       | gost     | 17 265                    |                       | stn    |
| X25H20C2      |                       | gost     | Serbia                    |                       |        |
| ЭН283         |                       | gost     | 1                         |                       |        |
| Japan         |                       | 4        | Č.4578                    |                       | srps   |
| SUH310        |                       | jis      | former Yugoslavia         |                       |        |
| SUS 310TB     |                       | jis      | 1                         |                       |        |
| SUS Y 310     |                       | jis      | Č.4578                    |                       | jus    |
| SUS18         |                       | jis      | Poland                    |                       |        |
| France        |                       | 3        | 1                         |                       |        |
| Z12CN25.20    |                       | afnor    | H25N20S2                  |                       | pn     |
| Z12CNS25.20   |                       | afnor    |                           |                       |        |
| Z15CNS25-20   |                       | afnor    |                           |                       |        |

**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 30314**  
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**ISSUED**  
Aug 23, 2026