

MATERIAL NUMBER 1.4307 · CLASS 1.4

# Z3CN19-09

Material no. 1.4307

also listed as X2CrNi18-9

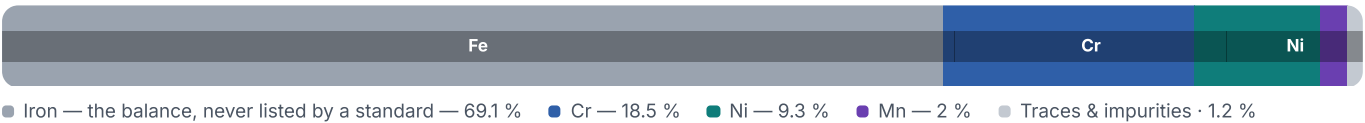
Chemical composition, mechanical and physical property values, and 88 standard designations from 13 regions.

|                             |                                               |                                     |
|-----------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.9</b> g/cm³ | OTHER DESIGNATIONS<br><b>88</b> in 13 regions | PROPERTY VALUES<br><b>9</b> on file |
|-----------------------------|-----------------------------------------------|-------------------------------------|

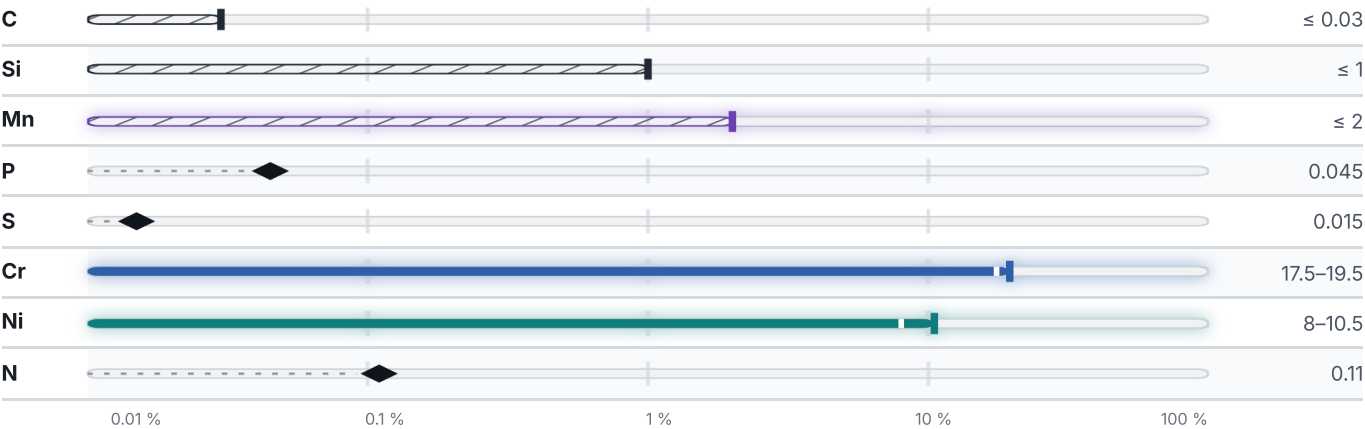
## Chemical composition

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

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

## Mechanical properties

24 values across 6 conditions

| CONDITION · DIMENSION                             | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% | HB  |     |
|---------------------------------------------------|-------------------------|-------------------------|---------|--------|-----|-----|
| Pipe cooling strain, GOST 9941-81                 | 490                     | –                       | 45      | –      | –   |     |
| Pipe hot strain, GOST 9940-81                     | 441                     | –                       | 40      | –      | –   |     |
| Forging, GOST 25054-81                            | 441                     | 157                     | 38–40   | 45–50  | –   |     |
| 04KH18N10 ( 04X18H10 ) , Forging<br>GOST 25054-81 | –                       | –                       | –       | –      | 179 |     |
| 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                            | 480                     | 175                     | 40      | –      | –   | –   |
| Hot-rolled                                        | –                       | –                       | –       | 187    | 90  | 200 |
| SOFT ANNEALED                                     |                         |                         |         |        |     | HB  |
| Soft annealed                                     |                         |                         |         |        |     | 215 |
| SOLUTION ANNEALED                                 |                         |                         |         |        |     | HB  |
| Solution annealed                                 |                         |                         |         |        |     | 200 |
| CONDITION · DIMENSION                             | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% |     |     |
| Bar, GOST 5949-75                                 | 440                     | 155                     | 40      | 55     |     |     |
| CONDITION · DIMENSION                             | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% |        |     |     |
| Sheet trick, GOST 7350-77                         | 490                     | 175                     | 45      |        |     |     |

## Physical properties

1 values

| CONDITION · DIMENSION |       |                   | RHO<br>g/cm <sup>3</sup> |
|-----------------------|-------|-------------------|--------------------------|
| 20                    |       |                   | 7.9                      |
| PROPERTY              | VALUE | UNIT              |                          |
| Density               | 7.9   | g/cm <sup>3</sup> |                          |

88 designations · 4 documented as identical

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|                |     |                         |        |
|----------------|-----|-------------------------|--------|
| United Kingdom | 1   | Slovakia                | 1      |
| 304S11         | bs  | 17 287                  | stn    |
| Japan          | 1   | Brazil                  | 1      |
| SUS304L        | jis | 304 L                   | abnt   |
| Czechia        | 1   | Australia / New Zealand | 1      |
| 17287          | csn | 304L                    | 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 Z3CN19-09

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

[Start an enquiry](#)

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