

MATERIAL NUMBER 1.4308 · CLASS 1.4

# J92590

## Material no. 1.4308

also listed as G-X 6 CrNi 18 9

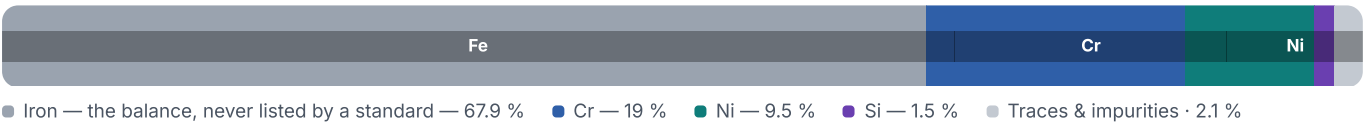
Chemical composition, mechanical and physical property values, and 29 standard designations from 10 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>29</b> in 10 regions | PROPERTY VALUES<br><b>9</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

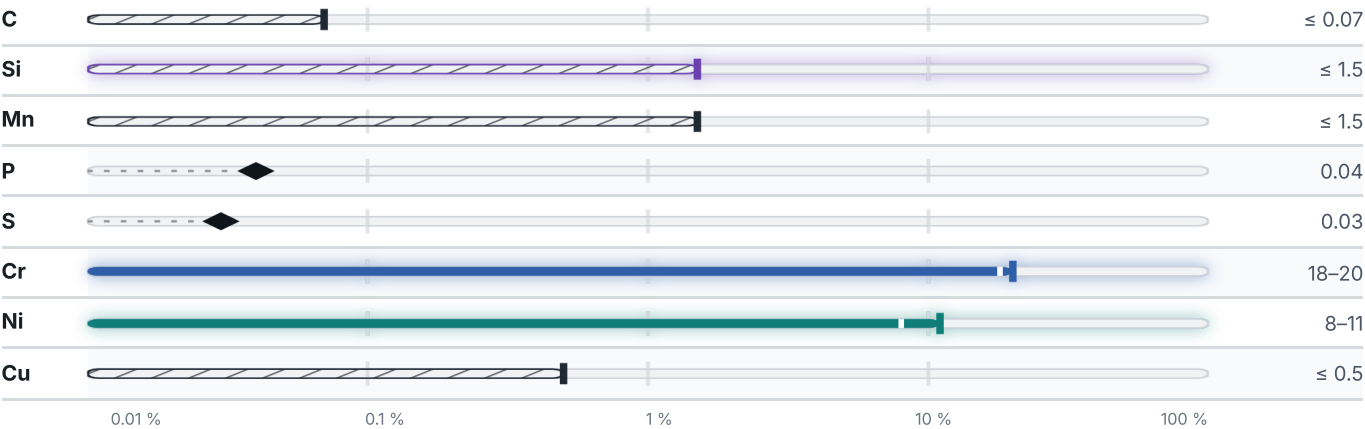
Chemical composition

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

9 values across 2 conditions

| CONDITION · DIMENSION   | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A<br>% | HB  |
|-------------------------|-------------------------|-------------------------|--------|-----|
| Casting                 | 440                     | 185                     | 30     | –   |
| Solution heat treatment | –                       | –                       | –      | 183 |

| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% | KCU<br>kJ/m <sup>2</sup> |
|-----------------------|-------------------------|-------------------------|---------|--------|--------------------------|
| Casting               | 450                     | 180                     | 25      | 35     | 1000                     |

Physical properties

1 values

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

Designations across standards

29 designations · 7 documented as identical

|                 |                               |                 |       |
|-----------------|-------------------------------|-----------------|-------|
| United States11 |                               | France3         |       |
| J92590          | This grade's own nameuns      | Z6CN18.10M      | afnor |
| J92600          | This grade's own nameuns      | Z6CN18.10M      | afnor |
| J92650          | This grade's own nameuns      | Z6CN19.9M       | afnor |
| J92710          | This grade's own nameuns      |                 |       |
| 304H            | This grade's own nameaisi-sae | Japan3          |       |
| CF-8            | aisi-sae                      | SCS 13A         | jis   |
| J92590          | aisi-sae                      | SCS 13X         | jis   |
| J92600          | aisi-sae                      | SCS13           | jis   |
| J92650          | aisi-sae                      |                 |       |
| J92710          | aisi-sae                      | United Kingdom1 |       |
| J92730          | aisi-sae                      | 304C15          | bs    |
| Russia / CIS4   |                               | Spain1          |       |
| 07Ch18N9L       | gost                          | F.8411          | une   |
| 07KH18N9L       | gost                          |                 |       |
| 07X18H9Л        | gost                          | Italy1          |       |
| Sv-07Kh18N9TYu  | gost                          | GX6CrNi20-10    | uni   |
| Europe3         |                               | Sweden1         |       |
| 1.4308          | din-en                        | 2333            | ss    |
| G-X 6 CrNi 18 9 | This grade's own namedin-en   |                 |       |
| GX5CrNi19-10    | This grade's own namedin-en   | Czechia1        |       |
|                 |                               | 422930          | csn   |

**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 J92590

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026