

MATERIAL NUMBER 1.4546 · CLASS 1.4

# S34809

Material no. 1.4546

also listed as X5CrNiNb18-10

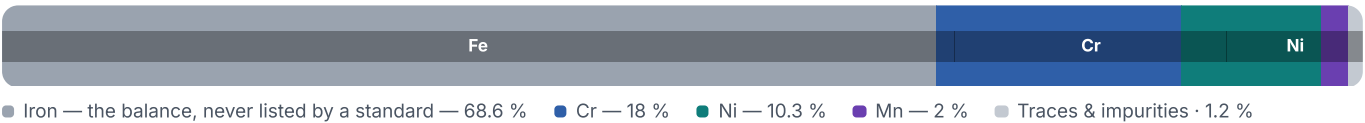
Chemical composition, mechanical and physical property values, and 70 standard designations from 4 regions.

|                                          |                                              |                                     |
|------------------------------------------|----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>70</b> in 4 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------------------|----------------------------------------------|-------------------------------------|

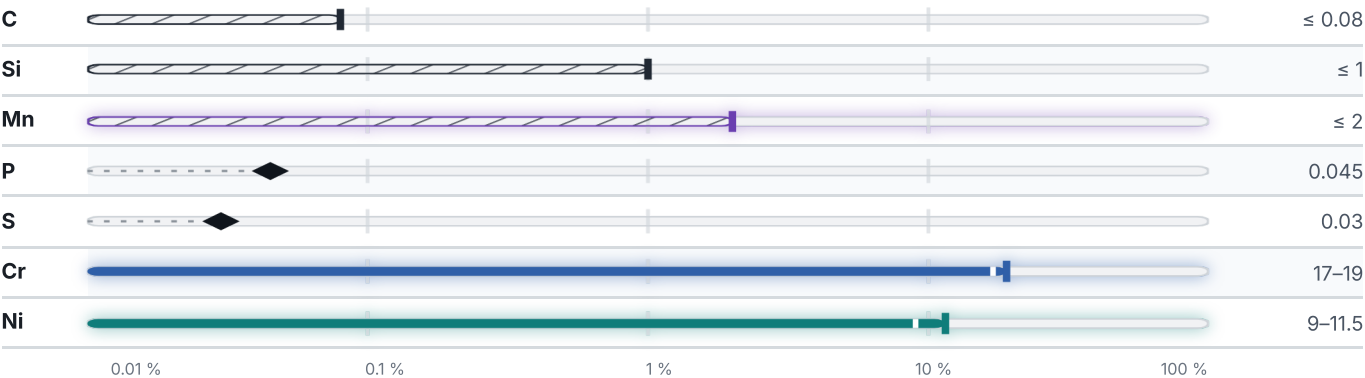
Chemical composition

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.

## Physical properties

1 values

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

## Designations across standards

70 designations · 7 documented as identical

|                      |                       |          |                                  |                       |
|----------------------|-----------------------|----------|----------------------------------|-----------------------|
| <b>United States</b> |                       | 47       | <b>A965</b>                      | astm                  |
| S34700               | This grade's own name | uns      | <b>F2281</b>                     | astm                  |
| S34800               | This grade's own name | uns      | <b>F593</b>                      | astm                  |
| S34809               | This grade's own name | uns      | <b>F594</b>                      | astm                  |
| 30347                |                       | aisi-sae | <b>F738</b>                      | astm                  |
| 30348                |                       | aisi-sae | <b>F836</b>                      | astm                  |
| 347                  | This grade's own name | aisi-sae | <b>United States / Aerospace</b> |                       |
| 348                  | This grade's own name | aisi-sae |                                  |                       |
| 348H                 | This grade's own name | aisi-sae | <b>5362</b>                      | ams                   |
| S34800               |                       | aisi-sae | <b>5512</b>                      | ams                   |
| A1012                |                       | astm     | <b>5556</b>                      | ams                   |
| A1049                |                       | astm     | <b>5558</b>                      | ams                   |
| A182                 |                       | astm     | <b>5571</b>                      | ams                   |
| A193                 |                       | astm     | <b>5575</b>                      | ams                   |
| A194                 |                       | astm     | <b>5646</b>                      | ams                   |
| A213                 |                       | astm     | <b>5654</b>                      | ams                   |
| A240                 |                       | astm     | <b>5674</b>                      | ams                   |
| A249                 |                       | astm     | <b>5790</b>                      | ams                   |
| A264                 |                       | astm     | <b>5897</b>                      | ams                   |
| A269                 |                       | astm     | <b>7490</b>                      | ams                   |
| A276                 |                       | astm     | <b>United Kingdom</b>            |                       |
| A312                 |                       | astm     |                                  |                       |
| A313                 |                       | astm     | <b>2 S.130</b>                   | bs                    |
| A314                 |                       | astm     | <b>2 S.143</b>                   | bs                    |
| A320                 |                       | astm     | <b>3 S.144</b>                   | bs                    |
| A336                 |                       | astm     | <b>347S17</b>                    | bs                    |
| A358                 |                       | astm     | <b>3S.145</b>                    | bs                    |
| A376                 |                       | astm     | <b>S.525</b>                     | bs                    |
| A403                 |                       | astm     | <b>S143</b>                      | bs                    |
| A409                 |                       | astm     | <b>S144</b>                      | bs                    |
| A430                 |                       | astm     | <b>S145</b>                      | bs                    |
| A473                 |                       | astm     | <b>S527</b>                      | bs                    |
| A479                 |                       | astm     | <b>Europe</b>                    |                       |
| A511                 |                       | astm     |                                  |                       |
| A554                 |                       | astm     | <b>X5CrNiNb18-10</b>             | This grade's own name |
| A580                 |                       | astm     |                                  | din-en                |
| A632                 |                       | astm     |                                  |                       |
| A774                 |                       | astm     |                                  |                       |
| A778                 |                       | astm     |                                  |                       |
| A813                 |                       | astm     |                                  |                       |
| A814                 |                       | astm     |                                  |                       |
| A943                 |                       | astm     |                                  |                       |

**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 S34809**  
Quotation, availability, mill certificate or a technical question — directly on the material page.

**Start an enquiry**

**DATASHEET ONLINE**  
View the material page

**GRADE SEARCH**  
Search all grades

**MATERIAL NO.**  
1.4546

**ISSUED**  
Aug 20, 2026