

MATERIAL NUMBER 1.4848 · CLASS 1.4

# LH25N19S2

## Material no. 1.4848

also listed as GX40CrNiSi25-20

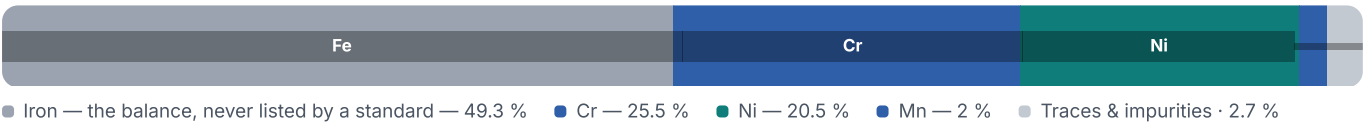
Chemical composition, mechanical and physical property values, and 20 standard designations from 10 regions.

|                                          |                                               |                                     |
|------------------------------------------|-----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>20</b> in 10 regions | PROPERTY VALUES<br><b>9</b> on file |
|------------------------------------------|-----------------------------------------------|-------------------------------------|

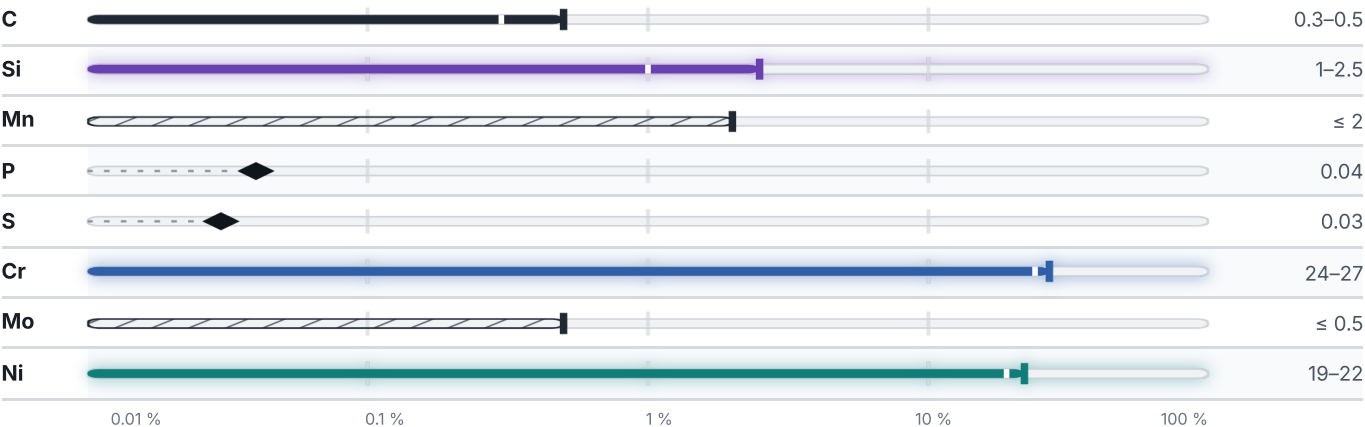
### Chemical composition

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

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

4 values across 1 conditions

| QUENCHING 1100°C | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% |
|------------------|-------------------------|-------------------------|---------|--------|
| to 100           | 491                     | 245                     | 25      | 28     |

Physical properties

1 values

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

Designations across standards

20 designations · 4 documented as identical

|                 |                          |                 |                             |
|-----------------|--------------------------|-----------------|-----------------------------|
| United States7  |                          | Russia / CIS2   |                             |
| J94203          | This grade's own nameuns | 20KH25N19S2L    | gost                        |
| J94204          | This grade's own nameuns | 20X25H19C2Л     | gost                        |
| J94224          | This grade's own nameuns |                 |                             |
| HKaisi-sae      |                          | Europe1         |                             |
| J94203          | aisi-sae                 | GX40CrNiSi25-20 | This grade's own namedin-en |
| J94204          | aisi-sae                 |                 |                             |
| J94224          | aisi-sae                 | France1         |                             |
| Japan3          |                          | Z40CN25-20M     | afnor                       |
| SCH 21          | jis                      | Spain1          |                             |
| SCH 22X         | jis                      | F.8452          | une                         |
| SCH22           | jis                      | Italy1          |                             |
| United Kingdom2 |                          | GX40CrNi26-20   | uni                         |
| 310 C 45        | bs                       | Czechia1        |                             |
| 310C40          | bs                       | 422 952         | csn                         |
|                 |                          | Poland1         |                             |
|                 |                          | LH25N19S2       | pn                          |

**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 LH25N19S2

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

Start an enquiry

|                        |                   |              |              |
|------------------------|-------------------|--------------|--------------|
| DATASHEET ONLINE       | GRADE SEARCH      | MATERIAL NO. | ISSUED       |
| View the material page | Search all grades | 1.4848       | Aug 20, 2026 |