

MATERIAL NUMBER 1.4871 · CLASS 1.4

# 349 S 52

## Material no. 1.4871

also listed as X53CrMnNiN21-9

Chemical composition, mechanical and physical property values, and 37 standard designations from 17 regions.

| DENSITY                       | OTHER DESIGNATIONS      | PROPERTY VALUES  |
|-------------------------------|-------------------------|------------------|
| <b>7.85</b> g/cm <sup>3</sup> | <b>37</b> in 17 regions | <b>9</b> on file |

### Chemical composition

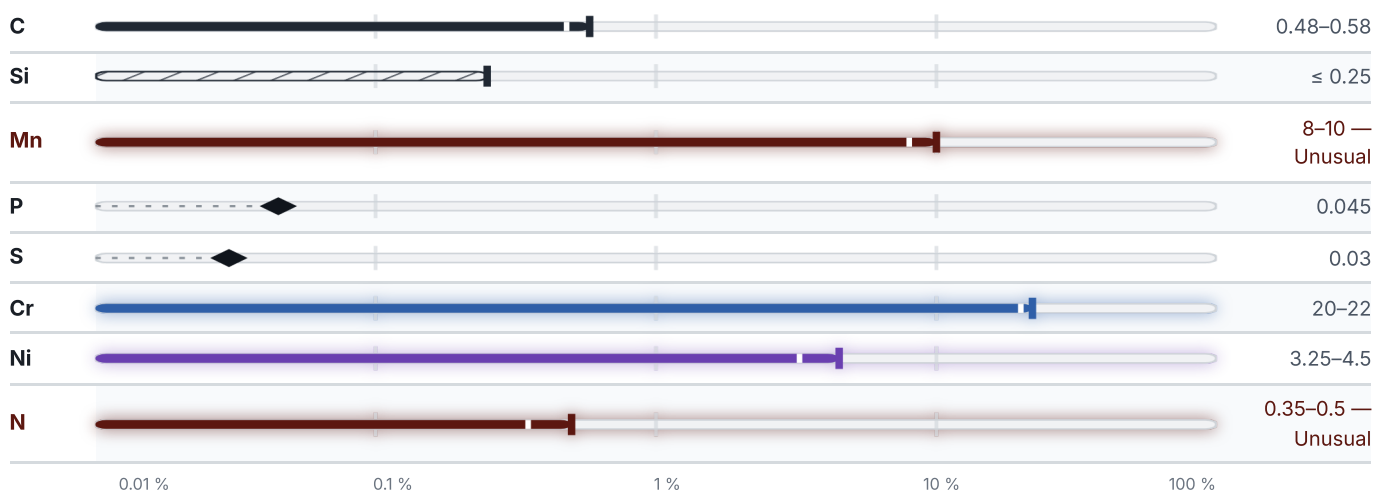
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 64.8 % ● Cr — 21 % ● Mn — 9 % ● Ni — 3.9 % ● Traces & impurities · 1.3 %

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

5 values across 2 conditions

| CONDITION · DIMENSION                       | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A<br>% | HB  |
|---------------------------------------------|-------------------------|-------------------------|--------|-----|
| Bars/Rods Precipitation hardening treatment | 880                     | 560                     | 8      | –   |
| Precipitation hardening treatment           | –                       | –                       | –      | 302 |
| SOLUTION ANNEALED                           |                         |                         |        | HRC |
| Solution annealed                           |                         |                         |        | 30  |

## Physical properties

1 values

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

## Designations across standards

37 designations · 3 documented as identical

|                          |          |                      |        |
|--------------------------|----------|----------------------|--------|
| <b>Russia / CIS</b>      | 6        | <b>Japan</b>         | 3      |
| 55Ch20G9AN4              | gost     | SUH35                | jis    |
| 55KH20G9AN4              | gost     | SUH36                | jis    |
| 55KH20G9AN4              | gost     | SUH661               | jis    |
| 55X20Г9AH4               | gost     |                      |        |
| 5X20H4AГ9                | gost     | <b>Europe</b>        | 2      |
| ЭП303                    | gost     | 1.4871               | din-en |
|                          |          | X53CrMnNiN21-9       | din-en |
| <b>United States</b>     | 4        |                      |        |
| S63008                   | uns      | <b>China</b>         | 2      |
| EV 8                     | aisi-sae | 5Cr21Mn9Ni4N         | gb     |
| EV12                     | aisi-sae | 5Cr2Mn9Ni4N          | gb     |
| S63008                   | aisi-sae |                      |        |
| <b>France</b>            | 4        | <b>South Korea</b>   | 2      |
| Z52CMN21.09              | afnor    | STR35                | ks     |
| Z53CMN21-09Az            | afnor    | STR36                | ks     |
| Z53CMNS21-09AZ           | afnor    | <b>International</b> | 1      |
| Z5CMN21.09               | afnor    | Type9                | iso    |
| <b>United Kingdom</b>    | 3        | <b>Italy</b>         | 1      |
| 349 S 52                 | bs       | X53CrMnNiN21-9       | uni    |
| 349S54                   | bs       |                      |        |
| X53CrMnNiN21-9           | bs       | <b>Czechia</b>       | 1      |
|                          |          | 17465                | csn    |
| <b>Spain</b>             | 3        | <b>Poland</b>        | 1      |
| F.3217                   | une      | 50H21G9N4            | pn     |
| F.3217-X 53 CrMnIn 21-09 | une      |                      |        |
| X53CrMnNiN21-09          | une      |                      |        |

|         |      |                |      |
|---------|------|----------------|------|
| Serbia  | 1    | Romania        | 1    |
| Č.4870  | srps | 53NNiMnCr210   | stas |
| Hungary | 1    | Bulgaria       | 1    |
| SZ13    | msz  | X53CrMnNiN21-9 | bds  |

**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 349 S 52

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

[Start an enquiry](#)

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