

MATERIAL NUMBER 1.1167 · CLASS 1.1

# 30Kh2NMFA

Material no. 1.1167

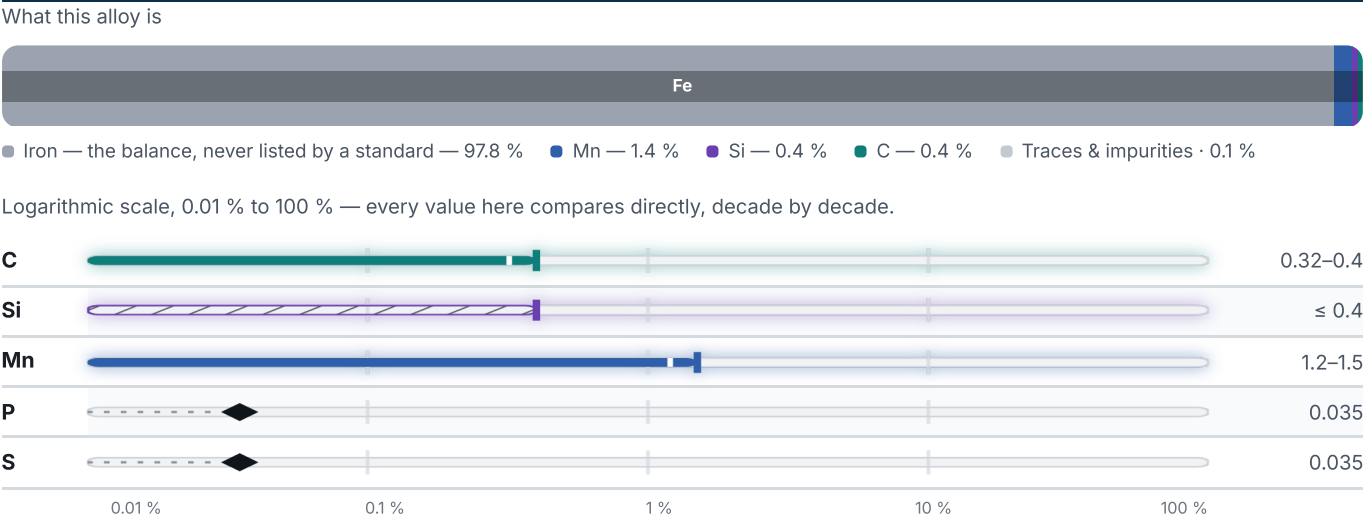
also listed as 36Mn5

Chemical composition, mechanical and physical property values, and 82 standard designations from 17 regions.

|                                          |                                               |                                      |
|------------------------------------------|-----------------------------------------------|--------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>82</b> in 17 regions | PROPERTY VALUES<br><b>12</b> on file |
|------------------------------------------|-----------------------------------------------|--------------------------------------|

Chemical composition

Mass fraction in %



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: Ni, Cr, Mo.

Mechanical properties

10 values across 3 conditions

| QUENCHING 870°C, OIL, DRAWING<br>650°C, AIR | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% |
|---------------------------------------------|-------------------------|-------------------------|---------|--------|
| Ø 25                                        | 620                     | 365                     | 13      | 40     |

| NORMALIZING                | 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> |
|----------------------------|-------------------------|-------------------------|---------|--------|--------------------------|
| 100 - 300                  | 530                     | 275                     | 17      | 38     | 340                      |
| CONDITION · DIMENSION      |                         |                         |         |        | HB                       |
| (annealing) , GOST 4543-71 |                         |                         |         |        | 207                      |

## Physical properties

7 values

| CONDITION · DIMENSION    | RHO<br>g/cm <sup>3</sup> | E<br>GPa          | LAMBDA<br>W/(m·K) |
|--------------------------|--------------------------|-------------------|-------------------|
| 20                       | 7.79                     | 204               | –                 |
| 100                      | –                        | –                 | 40                |
| 200                      | –                        | –                 | 38                |
| 300                      | –                        | –                 | 37                |
| 400                      | –                        | –                 | 36                |
| 500                      | –                        | –                 | 35                |
| PROPERTY                 | VALUE                    | UNIT              |                   |
| Density                  | 7.85                     | g/cm <sup>3</sup> |                   |
| Transformation point Ac1 | 718                      | °C                |                   |
| Transformation point Ac3 | 804                      | °C                |                   |
| Transformation point Ar3 | 727                      | °C                |                   |
| Transformation point Ar1 | 677                      | °C                |                   |

## Technological properties

| PROPERTY           | VALUE       | UNIT |
|--------------------|-------------|------|
| Flake sensitivity  | predisposed |      |
| Temper brittleness | predisposed |      |

## Designations across standards

82 designations · 9 documented as identical

| Russia / CIS  |                       | 26       | Japan          |                       | 7      |
|---------------|-----------------------|----------|----------------|-----------------------|--------|
| 30HG2STL      |                       | gost     | SCMn2          |                       | jis    |
| 30Kh2NMA      |                       | gost     | SCMn3          |                       | jis    |
| 30Kh2NMFA     |                       | gost     | SMn438         |                       | jis    |
| 30Kh2NVA      |                       | gost     | SMn438H        |                       | jis    |
| 30Kh2NVFA     |                       | gost     | SMn443         |                       | jis    |
| 30KhGSN2MA-VD |                       | gost     | SMn443H        |                       | jis    |
| 30KHGSN2A     |                       | gost     | SUM41          |                       | jis    |
| 30KHN2MFA     |                       | gost     | Spain          |                       | 5      |
| 30KhN2VA      |                       | gost     | 36Mn5          |                       | une    |
| 30KhN2VFA     |                       | gost     | 36Mn6          |                       | une    |
| 30KHS2        |                       | gost     | F.1203         |                       | une    |
| 30Г2          |                       | gost     | F.1203-36Mn5   |                       | une    |
| 30ХГ2СТЛ      |                       | gost     | F.8212         |                       | une    |
| 30ХГCH2MA     |                       | gost     | China          |                       | 4      |
| 30ХГCHA       |                       | gost     | 30Mn2          |                       | gb     |
| 35G2          |                       | gost     | 35Mn2          |                       | gb     |
| 35G2F         |                       | gost     | 40Mn2          |                       | gb     |
| 35G2FA        |                       | gost     | Z640Mn         |                       | gb     |
| 35GL          |                       | gost     | France         |                       | 3      |
| 35KHG2        |                       | gost     | 35M5           |                       | afnor  |
| 35KHGN2       |                       | gost     | 36Mn5          |                       | afnor  |
| 35KHN2ML      |                       | gost     | 40 M 5         |                       | afnor  |
| 35Г2          |                       | gost     | International  |                       | 3      |
| 35ГЛ          |                       | gost     | 36Mn6          |                       | iso    |
| AS35G2        |                       | gost     | 36Mn6H         |                       | iso    |
| СТ.30Г2       |                       | gost     | 42Mn6          |                       | iso    |
| United States |                       | 17       | South Korea    |                       | 3      |
| G13350        | This grade's own name | uns      | SCMn3          |                       | ks     |
| G15410        | This grade's own name | uns      | SMn438         |                       | ks     |
| H13350        | This grade's own name | uns      | SMn438H        |                       | ks     |
| H15410        | This grade's own name | uns      | Europe         |                       | 2      |
| 1137          |                       | aisi-sae | 1.1167         |                       | din-en |
| 1139          |                       | aisi-sae | 36Mn5          | This grade's own name | din-en |
| 1330          |                       | aisi-sae | United Kingdom |                       | 2      |
| 1335          | This grade's own name | aisi-sae | 150M36         |                       | bs     |
| 1335H         | This grade's own name | aisi-sae | EN 15          |                       | bs     |
| 1541          | This grade's own name | aisi-sae | Czechia        |                       | 2      |
| 1541H         | This grade's own name | aisi-sae | 14240          |                       | csn    |
| G11390        |                       | aisi-sae | 422 715        |                       | csn    |
| G13350        |                       | aisi-sae |                |                       |        |
| G15410        |                       | aisi-sae |                |                       |        |
| Gr.1340H      |                       | aisi-sae |                |                       |        |
| H13350        |                       | aisi-sae |                |                       |        |
| H15410        |                       | aisi-sae |                |                       |        |

|          |      |               |        |
|----------|------|---------------|--------|
| Romania  | 2    | Latin America | 1      |
| 35Mn16   | stas | 1541          | copant |
| T35Mn14  | stas |               |        |
| Bulgaria | 2    | Poland        | 1      |
| 35G2     | bds  | L35G          | pn     |
| 35GL     | bds  | Hungary       | 1      |
| Sweden   | 1    | Ao35Mn6       | msz    |
| 2120     | ss   |               |        |

**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 30Kh2NMFA

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

[Start an enquiry](#)

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