

MATERIAL NUMBER 1.7733 · CLASS 1.7

# 25Cr2Mo1VA

Material no. 1.7733

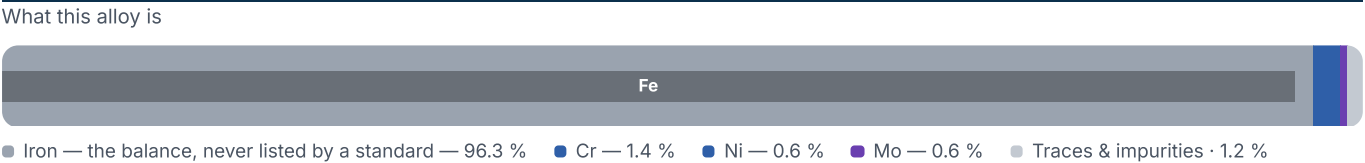
also listed as 24CrMoV5-5

Chemical composition, mechanical and physical property values, and 31 standard designations from 14 regions.

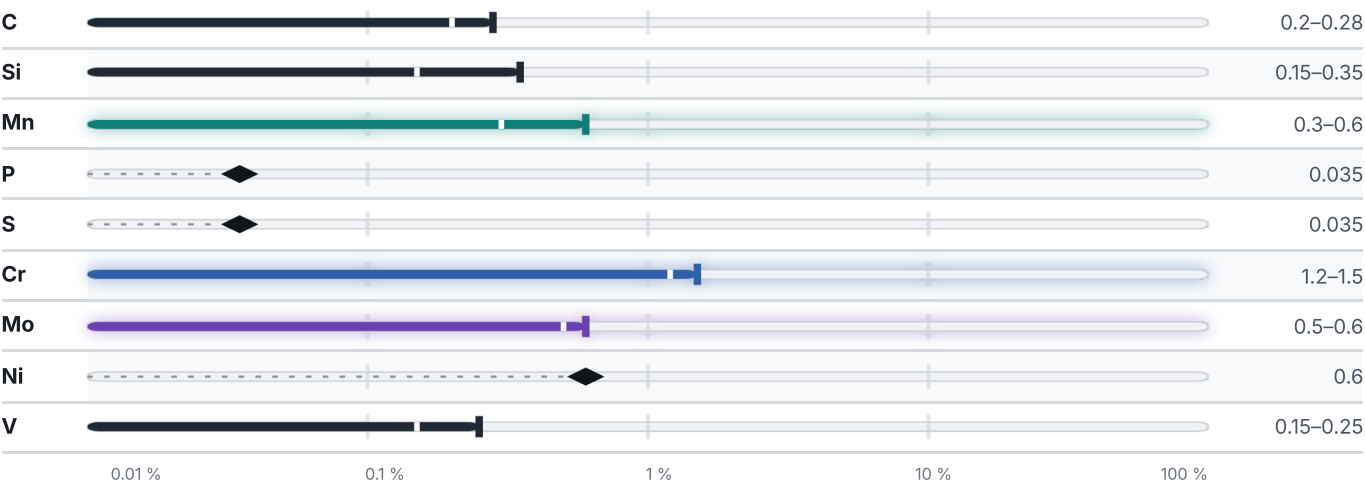
|                              |                                               |                                      |
|------------------------------|-----------------------------------------------|--------------------------------------|
| DENSITY<br><b>7.85</b> g/cm³ | OTHER DESIGNATIONS<br><b>31</b> in 14 regions | PROPERTY VALUES<br><b>10</b> on file |
|------------------------------|-----------------------------------------------|--------------------------------------|

Chemical composition

Mass fraction in %



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

computed from composition · °C

|                                |                                |                                |                               |
|--------------------------------|--------------------------------|--------------------------------|-------------------------------|
| PREDICTED AE3<br><b>798</b> °C | PREDICTED AE1<br><b>749</b> °C | PREDICTED ACM<br><b>535</b> °C | PREDICTED BS<br><b>515</b> °C |
|--------------------------------|--------------------------------|--------------------------------|-------------------------------|

Mechanical properties

5 values across 1 conditions

| 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, GOST 977-88  | 491                     | 275                     | 16      | 35     | 294                      |

Physical properties

1 values

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

Heat treatment

1 regimes

| STEP                                                  | TEMPERATURE            | MEDIUM |
|-------------------------------------------------------|------------------------|--------|
| source joins the operations with + / procedural order |                        |        |
| Quenching                                             | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |

Designations across standards

31 designations · 2 documented as identical

|               |          |                |                                 |
|---------------|----------|----------------|---------------------------------|
| Russia / CIS  | 4        | China          | 3                               |
| 20KHMFL       | gost     | 25Cr2Mo1VA     | gb                              |
| 20XMΦЛ        | gost     | 25Cr2MoVA      | gb                              |
| 25X1MΦ        | gost     | 25CrMoVA       | gb                              |
| ст.25X1MΦ     | gost     |                |                                 |
| Czechia       | 4        | United Kingdom | 2                               |
| 15236         | csn      | 621            | bs                              |
| 15320         | csn      | 671-850        | bs                              |
| 415320        | csn      | France         | 2                               |
| 422744        | csn      | 15CD5-05M      | afnor                           |
| Poland        | 4        | 28CDV5         | afnor                           |
| 23H2MF        | pn       | Italy          | 2                               |
| 24H2MF        | pn       | 24CrMoV5-5     | uni                             |
| 26H2MF        | pn       | G15CrMo55      | uni                             |
| L18HM         | pn       | Austria        | 2                               |
| United States | 3        | 24CrMoV5-5     | onorm                           |
| K11572        | uns      | GS17CrMo55     | onorm                           |
| Gr.WC6        | aisi-sae | Europe         | 1                               |
| A 182 F 11    | astm     | 24CrMoV5-5     | This grade's own name<br>din-en |
|               |          | Japan          | 1                               |
|               |          | SCPH21         | jis                             |

|          |      |         |     |
|----------|------|---------|-----|
| Slovakia | 1    | Hungary | 1   |
| 415320   | stn  | MCrMoV  | msz |
| Serbia   | 1    |         |     |
| Č.7432   | srps |         |     |

**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 25Cr2Mo1VA

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

[Start an enquiry](#)

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