

# M3-1

also listed as S6-5-3

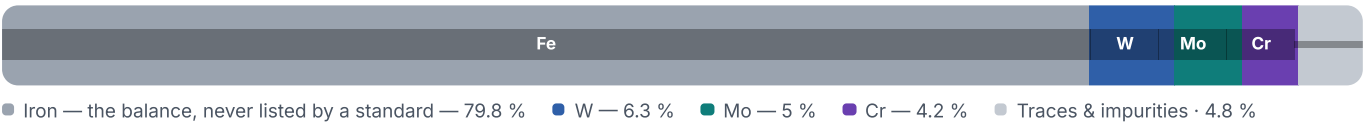
Chemical composition, mechanical and physical property values, and 5 standard designations from 5 regions.

| OTHER DESIGNATIONS | PROPERTY VALUES |
|--------------------|-----------------|
| 5 in 5 regions     | 9 on file       |

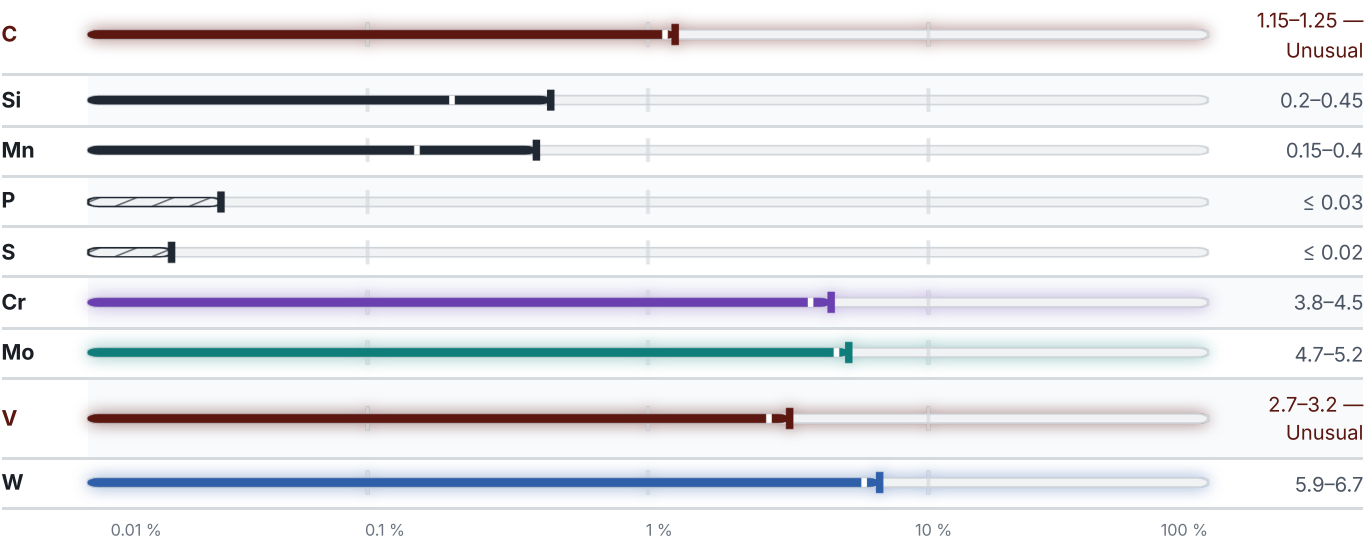
## Chemical composition

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: Ni.

Heat treatment

4 regimes

| STEP                                                  | TEMPERATURE            | MEDIUM |
|-------------------------------------------------------|------------------------|--------|
| source joins the operations with + / procedural order |                        |        |
| Preheating                                            | 800–900 °C             | —      |
| Quenching                                             | 1190–1210 °C           | —      |
| Tempering                                             | 550 °C                 | —      |
| Annealing                                             | Temperature not stated | —      |
| Annealing                                             | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Quenching                                             | Temperature not stated | —      |
| Tempering                                             | Temperature not stated | —      |

Designations across standards

5 designations · 1 documented as identical

|                |        |                                               |     |
|----------------|--------|-----------------------------------------------|-----|
| Europe         | 1      | International                                 | 1   |
| S6-5-3         | din-en | HS6-5-3                                       | iso |
| United States  | 1      | China                                         | 1   |
| M3-1           | astm   | W6Mo5Cr4V3 <span>This grade's own name</span> | gb  |
| United Kingdom | 1      |                                               |     |
| BM3            | bs     |                                               |     |

**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 M3-1

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

[Start an enquiry](#)

DATASHEET ONLINE

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MATERIAL NO.

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ISSUED

Aug 15, 2026