

MATERIAL NUMBER 1.7321 · CLASS 1.7

# EX4

## Material no. 1.7321

also listed as 20MoCr4

Chemical composition, mechanical and physical property values, and 9 standard designations from 4 regions.

|                              |                                             |                                     |
|------------------------------|---------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.76</b> g/cm³ | OTHER DESIGNATIONS<br><b>9</b> in 4 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------|---------------------------------------------|-------------------------------------|

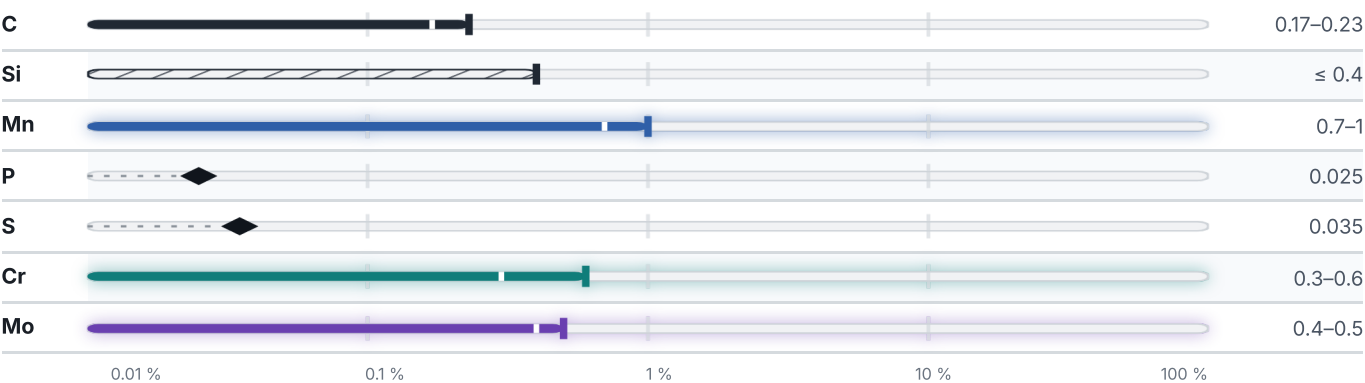
### Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni.

## Mechanical properties

4 values across 4 conditions

|                                                          |         |
|----------------------------------------------------------|---------|
| TREATED TO IMPROVE SHEARABILITY                          | HB      |
| Treated to improve shearability                          | 255     |
| SOFT ANNEALED                                            | HB      |
| Soft annealed                                            | 207     |
| TREATED TO HARDNESS RANGE                                | HB      |
| Treated to hardness range                                | 156–207 |
| TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE | HB      |
| Treated to ferrite-pearlite structure and hardness range | 140–187 |

## Physical properties

1 values

| PROPERTY | VALUE | UNIT              |
|----------|-------|-------------------|
| Density  | 7.76  | g/cm <sup>3</sup> |

## Heat treatment

8 regimes

| STEP                                                  | TEMPERATURE            | MEDIUM |
|-------------------------------------------------------|------------------------|--------|
| Annealing                                             | Temperature not stated | —      |
| Spheroidize annealing                                 | Temperature not stated | —      |
| source joins the operations with + / procedural order |                        |        |
| Spheroidize annealing                                 | Temperature not stated | —      |
| Spheroidize annealing                                 | Temperature not stated | —      |
| Spheroidize annealing                                 | Temperature not stated | —      |
| Soft annealing                                        | Temperature not stated | —      |
| Soft annealing                                        | Temperature not stated | —      |
| Quenching and tempering                               | Temperature not stated | —      |
| Soft annealing                                        | Temperature not stated | —      |

Designations across standards

9 designations · 7 documented as identical

|               |                       |          |         |                       |        |
|---------------|-----------------------|----------|---------|-----------------------|--------|
| United States |                       | 6        | Europe  |                       | 1      |
| G41180        | This grade's own name | uns      | 20MoCr4 | This grade's own name | din-en |
| H41180        | This grade's own name | uns      |         |                       |        |
| 4118          | This grade's own name | aisi-sae | Spain   |                       | 1      |
| 4118H         | This grade's own name | aisi-sae | 20MoCr5 |                       |        |
| 4118RH        | This grade's own name | aisi-sae |         |                       |        |
| EX4           | This grade's own name | aisi-sae | Serbia  |                       | 1      |
|               |                       |          | Č.7420  |                       | 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 EX4

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 | 1.7321       | Aug 20, 2026 |