

# 1X14H18B2BP

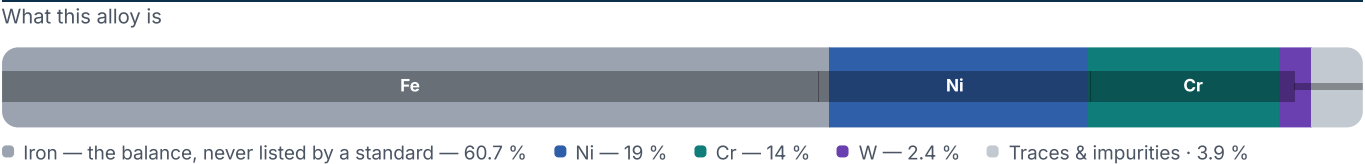
also listed as 09KH14N19V2BR

Chemical composition, mechanical and physical property values, and 4 standard designations from 1 regions.

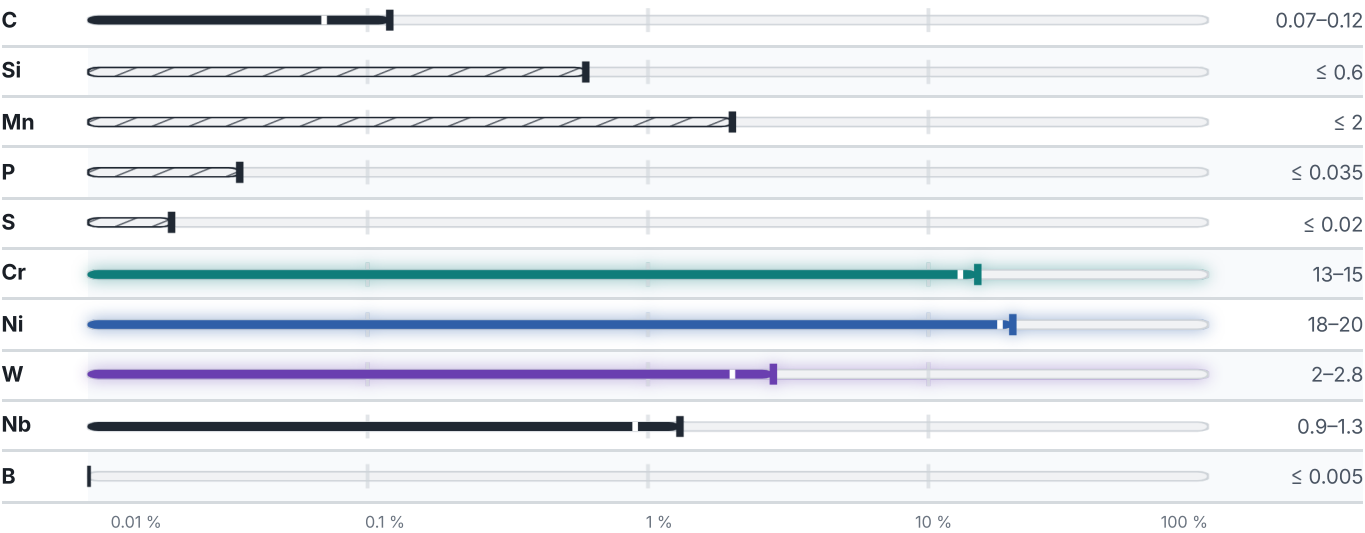
| OTHER DESIGNATIONS | PROPERTY VALUES |
|--------------------|-----------------|
| 4 in 1 regions     | 11 on file      |

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

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

Mechanical properties

9 values across 2 conditions

| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% |  |
|-----------------------|-------------------------|-------------------------|---------|--------|--|
| Bar, GOST 5949-75     | 510                     | 215                     | 35      | 50     |  |

| 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> |
|-----------------------|-------------------------|-------------------------|---------|--------|--------------------------|
| Blank for pipe        | 500                     | 220                     | 38      | 50     | 1400                     |

Physical properties

1 values

| CONDITION · DIMENSION | RHO<br>g/cm <sup>3</sup> | E<br>GPa | ALPHA<br>10 <sup>-6</sup> /K | LAMBDA<br>W/(m·K) | RHO_EL<br>nΩ·m |
|-----------------------|--------------------------|----------|------------------------------|-------------------|----------------|
| 20                    | 8.1                      | 207      | –                            | –                 | 816            |
| 100                   | 8.07                     | –        | 15.9                         | 13.7              | 873            |
| 200                   | 8.03                     | –        | 16.5                         | 16.2              | 934            |
| 300                   | 7.98                     | –        | 17.2                         | 18.6              | 988            |
| 400                   | 7.94                     | –        | 16.6                         | 20.5              | 1036           |
| 500                   | 7.89                     | –        | 18                           | 22.6              | 1078           |
| 600                   | 7.85                     | 158      | 18.3                         | 24.4              | 1114           |
| 700                   | 7.8                      | 151      | 18.6                         | –                 | 1115           |
| 800                   | 7.75                     | –        | 18.7                         | 26.4              | 1172           |
| 900                   | –                        | –        | 19                           | 28                | 1198           |

Technological properties

| PROPERTY    | VALUE             | UNIT |
|-------------|-------------------|------|
| Weldability | hard weldability. |      |

Designations across standards

4 designations · 1 documented as identical

|                                                  |      |
|--------------------------------------------------|------|
| Russia / CIS                                     | 4    |
| 09KH14N19V2BR <span>This grade's own name</span> | gost |
| 09X14H19B2BP                                     | gost |
| 1X14H18B2BP                                      | gost |
| ЭИ695P                                           | gost |

**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 1X14H18B25P

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

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MATERIAL NO.

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ISSUED

Aug 15, 2026