

# 12KhNVFA

also listed as 12GF-Sh

Chemical composition, mechanical and physical property values, and 13 standard designations from 1 regions.

| OTHER DESIGNATIONS | PROPERTY VALUES |
|--------------------|-----------------|
| 13 in 1 regions    | 3 on file       |

| Chemical composition                                         | Mass fraction in % |
|--------------------------------------------------------------|--------------------|
| No chemical composition is on file for this material number. |                    |

| Predicted transformation temperatures                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|
| Not enough recorded composition to predict a transformation temperature for this grade — missing: C, Mn, Si, Ni, Cr, Mo. |

| Mechanical properties | 6 values across 2 conditions |                         |         |
|-----------------------|------------------------------|-------------------------|---------|
| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup>      | RE<br>N/mm <sup>2</sup> | A5<br>% |
| to 60                 | 450                          | 315                     | 26      |
| CONDITION · DIMENSION | RM<br>N/mm <sup>2</sup>      | RE<br>N/mm <sup>2</sup> | A5<br>% |
| 4                     | 470                          | 320                     | 26      |

| Physical properties | 3 values |
|---------------------|----------|
|---------------------|----------|

| Technological properties |                      |      |
|--------------------------|----------------------|------|
| PROPERTY                 | VALUE                | UNIT |
| Weldability              | without limitations. |      |
| Flake sensitivity        | not predisposed      |      |

| PROPERTY           | VALUE           | UNIT |
|--------------------|-----------------|------|
| Temper brittleness | not predisposed |      |

Designations across standards

13 designations · 1 documented as identical

|                                        |      |
|----------------------------------------|------|
| Russia / CIS                           | 13   |
| 12GF-Sh                                | gost |
| 12GS                                   | gost |
| 12GSB                                  | gost |
| 12GSBYu                                | gost |
| 12KhGFL                                | gost |
| 12KHN                                  | gost |
| 12KhNVFA                               | gost |
| 12ГФ                                   | gost |
| 12K <span>This grade's own name</span> | gost |
| KH12VMF                                | gost |
| R12                                    | gost |
| Sv-12GS                                | gost |
| AS12KHN                                | 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 12KhNVFA

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

[Start an enquiry](#)

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