

MATERIAL NUMBER 1.0961 · CLASS 1.0

# F.1442-60SiCR8

Material no. 1.0961

also listed as HDT450F

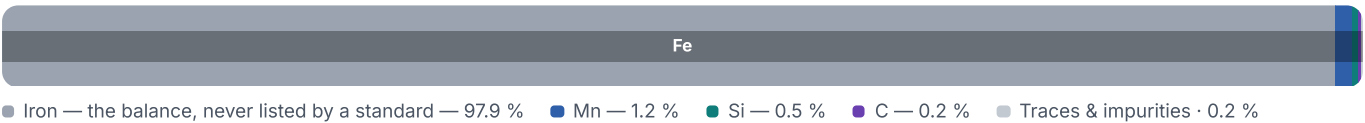
Chemical composition, mechanical and physical property values, and 39 standard designations from 15 regions.

|                                          |                                               |                                      |
|------------------------------------------|-----------------------------------------------|--------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>39</b> in 15 regions | PROPERTY VALUES<br><b>16</b> on file |
|------------------------------------------|-----------------------------------------------|--------------------------------------|

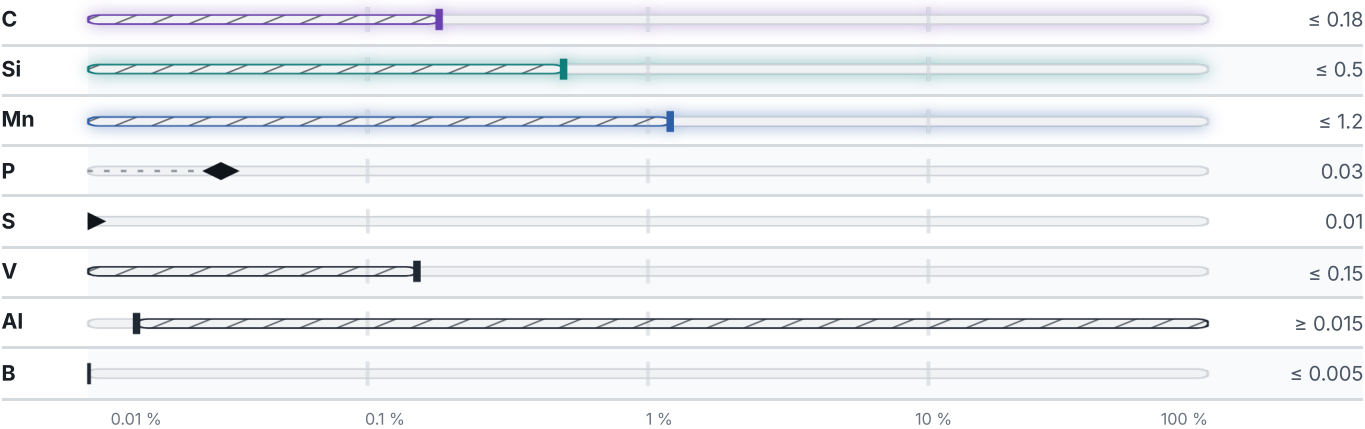
Chemical composition

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, Cr, Mo.

## Mechanical properties

8 values across 2 conditions

| CONDITION · DIMENSION                 | RM<br>N/mm <sup>2</sup> | A5<br>% | HB  |
|---------------------------------------|-------------------------|---------|-----|
| Band annealed                         | 900                     | 8       | –   |
| (annealing) , GOST 14959-79           | –                       | –       | 269 |
| (without heat treatment) , GOST 14959 | –                       | –       | 302 |

| CONDITION · DIMENSION       | RM<br>N/mm <sup>2</sup> | RE<br>N/mm <sup>2</sup> | A5<br>% | Z<br>% |
|-----------------------------|-------------------------|-------------------------|---------|--------|
| Rolled stock, GOST 14959-79 | 1270                    | 1175                    | 6       | 25     |

## Physical properties

8 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) | CP<br>J/(kg·K) |
|-----------------------|--------------------------|----------|------------------------------|-------------------|----------------|
| 20                    | 7.68                     | 212      | –                            | 28                | –              |
| 100                   | 7.66                     | 206      | 11.8                         | 29                | 510            |
| 200                   | 7.63                     | 198      | 12.7                         | 29                | 510            |
| 300                   | 7.59                     | 192      | 13.3                         | 30                | 520            |
| 400                   | 7.57                     | 181      | 13.7                         | 30                | 535            |
| 500                   | 7.52                     | 178      | 14.1                         | 30                | 565            |
| 600                   | –                        | 158      | 14.5                         | 29                | 585            |
| 700                   | –                        | 144      | 14.4                         | 29                | 620            |
| 800                   | –                        | 134      | 12.2                         | 28                | 700            |

| PROPERTY                 | VALUE | UNIT              |
|--------------------------|-------|-------------------|
| Density                  | 7.85  | g/cm <sup>3</sup> |
| Transformation point Ac1 | 770   | °C                |
| Transformation point Ac3 | 820   | °C                |
| Transformation point Ar3 | 770   | °C                |
| Transformation point Ar1 | 700   | °C                |

## Technological properties

| PROPERTY           | VALUE           | UNIT |
|--------------------|-----------------|------|
| Weldability        | is not used.    |      |
| Flake sensitivity  | not predisposed |      |
| Temper brittleness | not predisposed |      |

## Designations across standards

39 designations · 2 documented as identical

| United States                              |          | 5 | Russia / CIS            |        | 3    |
|--------------------------------------------|----------|---|-------------------------|--------|------|
| 9260                                       | aisi-sae |   | 60S2                    |        | gost |
| 9262                                       | aisi-sae |   | 60C2                    |        | gost |
| G92600                                     | aisi-sae |   | 60CrA                   |        | gost |
| Gr.9260H                                   | aisi-sae |   |                         |        |      |
| H92600                                     | aisi-sae |   | Australia / New Zealand |        | 3    |
| United Kingdom                             |          | 5 | 9260                    | as-nzs |      |
| 250A53                                     | bs       |   | 9260H                   | as-nzs |      |
| 250A61                                     | bs       |   | XK9258S                 | as-nzs |      |
| 251A58                                     | bs       |   | Japan                   |        | 2    |
| 251A60                                     | bs       |   | SUP6                    | jis    |      |
| 251H60                                     | bs       |   | SUP7                    | jis    |      |
| Spain                                      |          | 5 | China                   |        | 2    |
| 60Si7                                      | une      |   | 60Si2Mn                 | gb     |      |
| 60SiCr8                                    | une      |   | 60Si2MnA                | gb     |      |
| F.1441                                     | une      |   | Italy                   |        | 2    |
| F.1442                                     | une      |   | 60Si7                   | uni    |      |
| F.1442-60SiCr8                             | une      |   | 60SiCr8                 | uni    |      |
| Europe                                     |          | 4 | Czechia                 |        | 1    |
| 1.0961                                     | din-en   |   | 13270                   | csn    |      |
| 60SiCr7                                    | din-en   |   | Poland                  |        | 1    |
| HDT450F <span>This grade's own name</span> | din-en   |   | 60S2                    | pn     |      |
| S340MGC <span>This grade's own name</span> | din-en   |   | Hungary                 |        | 1    |
| France                                     |          | 3 | 61Si7                   | msz    |      |
| 60S7                                       | afnor    |   | Bulgaria                |        | 1    |
| 60SC7                                      | afnor    |   | 60S2                    | bds    |      |
| 61SC7                                      | afnor    |   | Belgium                 |        | 1    |
|                                            |          |   | 60Si7                   | nbn    |      |

**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 F.1442-60SiCr8

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

[Start an enquiry](#)

## DATASHEET ONLINE

[View the material page](#)

## GRADE SEARCH

[Search all grades](#)

## MATERIAL NO.

1.0961

## ISSUED

Aug 20, 2026