

MATERIAL NUMBER 1.1155 · CLASS 1.1

# 080A25

Material no. 1.1155

also listed as GC25E

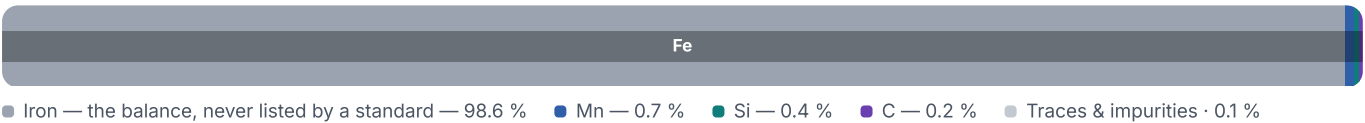
Chemical composition, mechanical and physical property values, and 22 standard designations from 6 regions.

|                                          |                                              |                                     |
|------------------------------------------|----------------------------------------------|-------------------------------------|
| DENSITY<br><b>7.85</b> g/cm <sup>3</sup> | OTHER DESIGNATIONS<br><b>22</b> in 6 regions | PROPERTY VALUES<br><b>8</b> on file |
|------------------------------------------|----------------------------------------------|-------------------------------------|

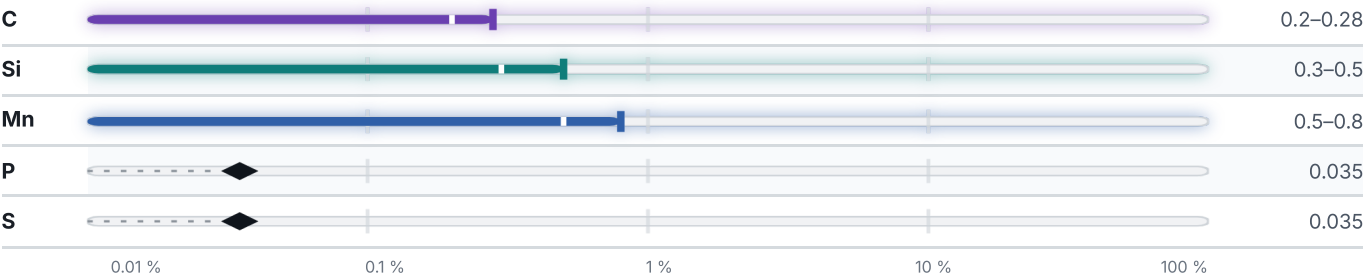
Chemical composition

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, Cr, Mo.

Mechanical properties

6 values across 2 conditions

| QUENCHING 880°C, WATER,<br>DRAWING 560°C, AIR | 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> |
|-----------------------------------------------|-------------------------|-------------------------|---------|--------|--------------------------|
| to 25                                         | 500                     | 300                     | 22      | 50     | 880                      |

| CONDITION · DIMENSION      | HB  |
|----------------------------|-----|
| (annealing) , GOST 4543-71 | 197 |

## Physical properties

3 values

| PROPERTY                 | VALUE | UNIT              |
|--------------------------|-------|-------------------|
| Density                  | 7.85  | g/cm <sup>3</sup> |
| Transformation point Ac1 | 723   | °C                |
| Transformation point Ac3 | 820   | °C                |

## Heat treatment

2 regimes

| STEP        | TEMPERATURE            | MEDIUM |
|-------------|------------------------|--------|
| Normalizing | 880–940 °C             | —      |
| Normalizing | Temperature not stated | —      |

## Designations across standards

22 designations · 3 documented as identical

|                      |                       |          |                       |                       |        |
|----------------------|-----------------------|----------|-----------------------|-----------------------|--------|
| <b>United States</b> |                       | 8        | <b>Russia / CIS</b>   |                       | 3      |
| J02002               | This grade's own name | uns      | 25G                   |                       | gost   |
| 1026                 |                       | aisi-sae | 25Г                   |                       | gost   |
| 1026H                |                       | aisi-sae | ст.25Г                |                       | gost   |
| 1029                 |                       | aisi-sae |                       |                       |        |
| 1525                 |                       | aisi-sae | <b>Europe</b>         |                       | 2      |
| G10260               |                       | aisi-sae | GC25E                 | This grade's own name | din-en |
| G10290               |                       | aisi-sae | GS-Ck 25              | This grade's own name | din-en |
| G15250               |                       | aisi-sae |                       |                       |        |
| <b>China</b>         |                       | 5        | <b>United Kingdom</b> |                       | 2      |
| 25                   |                       | gb       | 070M26                |                       | bs     |
| 25 25Z ZG230-450     |                       | gb       | 080A25                |                       | bs     |
| 25MnG                |                       | gb       | <b>Japan</b>          |                       | 2      |
| 25Z                  |                       | gb       | S 25 C                |                       | jis    |
| ZG 25                |                       | gb       | STB410                |                       | jis    |

**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 080A25

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

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ISSUED

Aug 20, 2026