

MATERIAL NUMBER 1.1155 · CLASS 1.1

GC25E

Material no. 1.1155

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

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 22 in 6 regions	PROPERTY VALUES 8 on file
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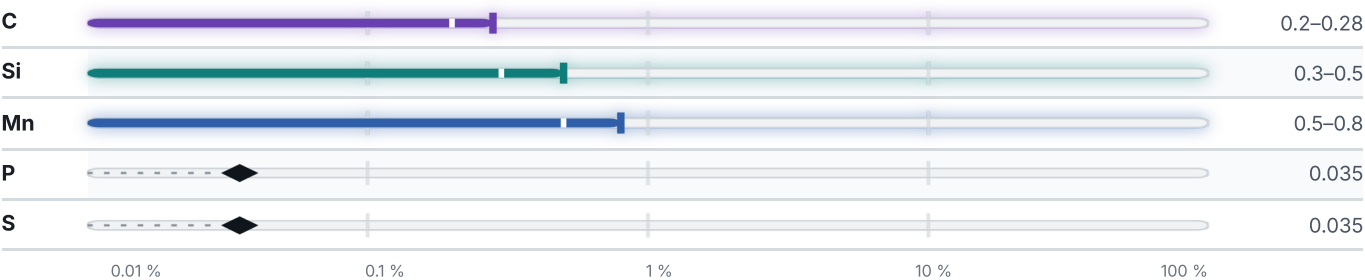
Chemical composition

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, DRAWING 560°C, AIR	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
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 ³
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

United States		8	Russia / CIS		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	Europe		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			
China		5	United Kingdom		2
25		gb	070M26		bs
25 25Z ZG230-450		gb	080A25		bs
25MnG		gb	Japan		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 GC25E

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

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ISSUED

Aug 20, 2026