

MATERIAL NUMBER 1.4107 · CLASS 1.4

Z6CN12-1M

Material no. 1.4107

also listed as GX8CrNi12

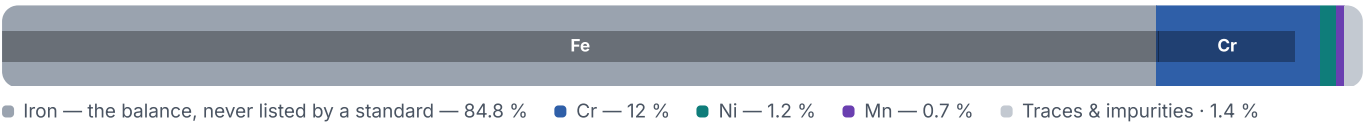
Chemical composition, mechanical and physical property values, and 6 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 6 in 5 regions	PROPERTY VALUES 11 on file
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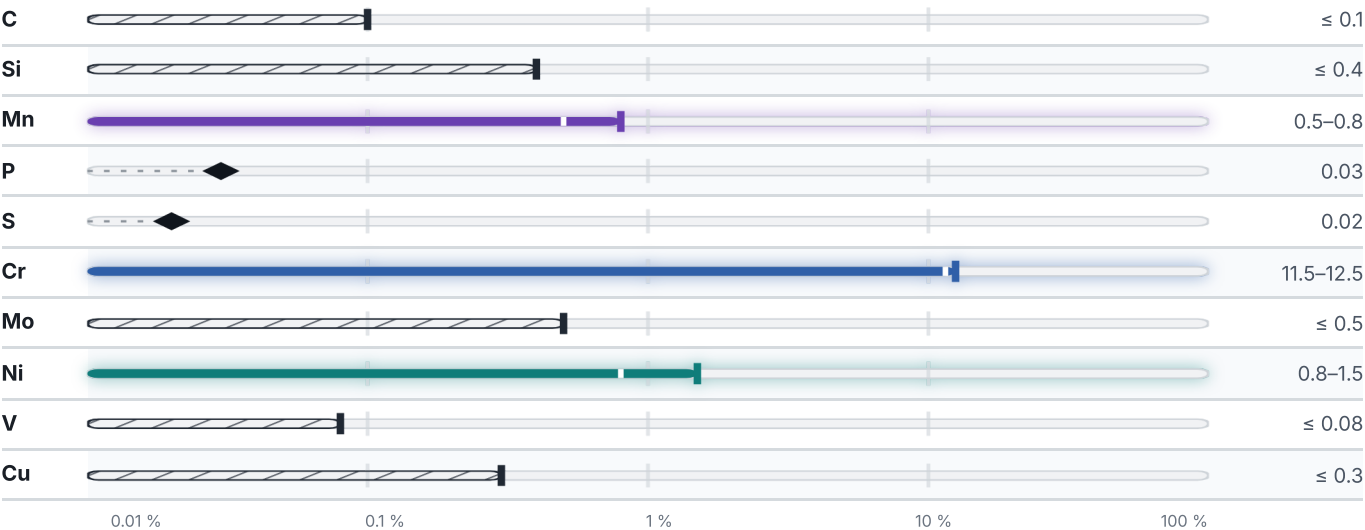
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no

transformation temperature is predicted here.

Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Casting, GOST 977-88	589	491	15	30	294

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

6 designations · 1 documented as identical

Russia / CIS	2	France	1
20KH12VNMFL	gost	Z6CN12-1M	afnor
20X12BHMΦЛ	gost	Czechia	1
Europe	1	422917	csn
GX8CrNi12	This grade's own name din-en	Austria	1
		G-X8CrNi12	onorm

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 Z6CN12-1M

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

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4107	Aug 20, 2026