

32G2

Chemical composition, mechanical and physical property values, and 5 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
5 in 1 regions	13 on file

Chemical composition

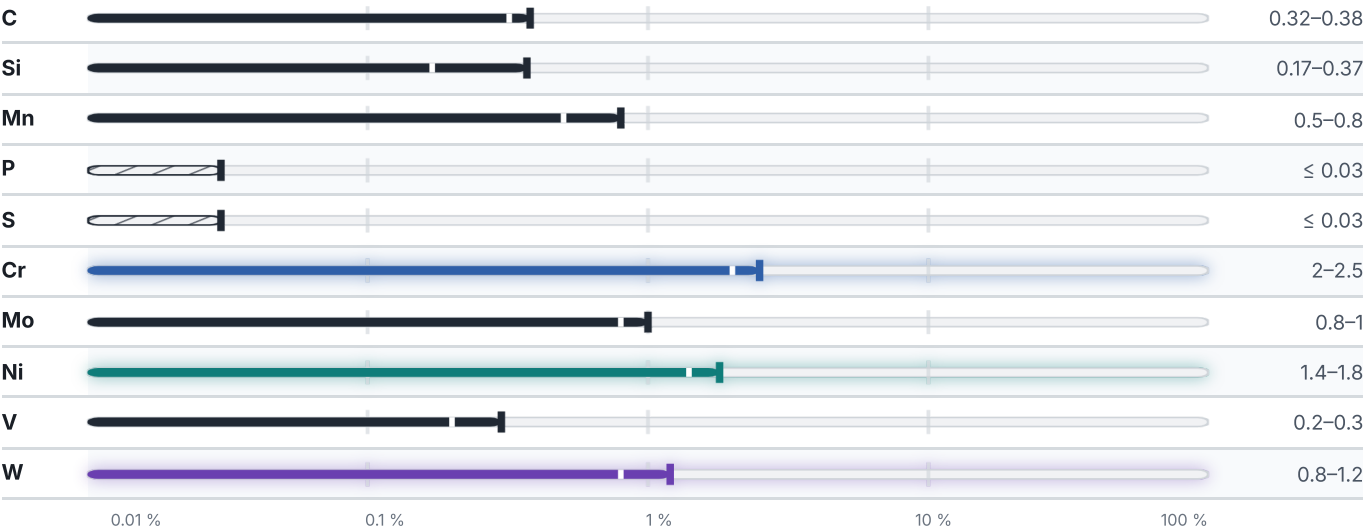
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 92.7 % ● Cr — 2.3 % ● Ni — 1.6 % ● W — 1 % ● Traces & impurities · 2.5 %

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

3 values across 1 conditions

NORMALIZING AND DRAWING	RM N/mm ²	RE N/mm ²	A5 %
to 700	1400	1300	7

Physical properties

3 values

Technological properties

PROPERTY	VALUE	UNIT
Weldability	hard weldability.	
Flake sensitivity	weakly predisposed	
Temper brittleness	weakly predisposed	

Designations across standards

5 designations · 1 documented as identical

Russia / CIS	5
32G2	gost
32G2M	gost
32G2S	gost
3KH2N2MVF This grade's own name	gost
3X2H2MBΦ	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 32G2

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.

—

ISSUED

Aug 15, 2026