

3M2

Chemical composition, mechanical and physical property values, and 3 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 1 regions	15 on file

Chemical composition

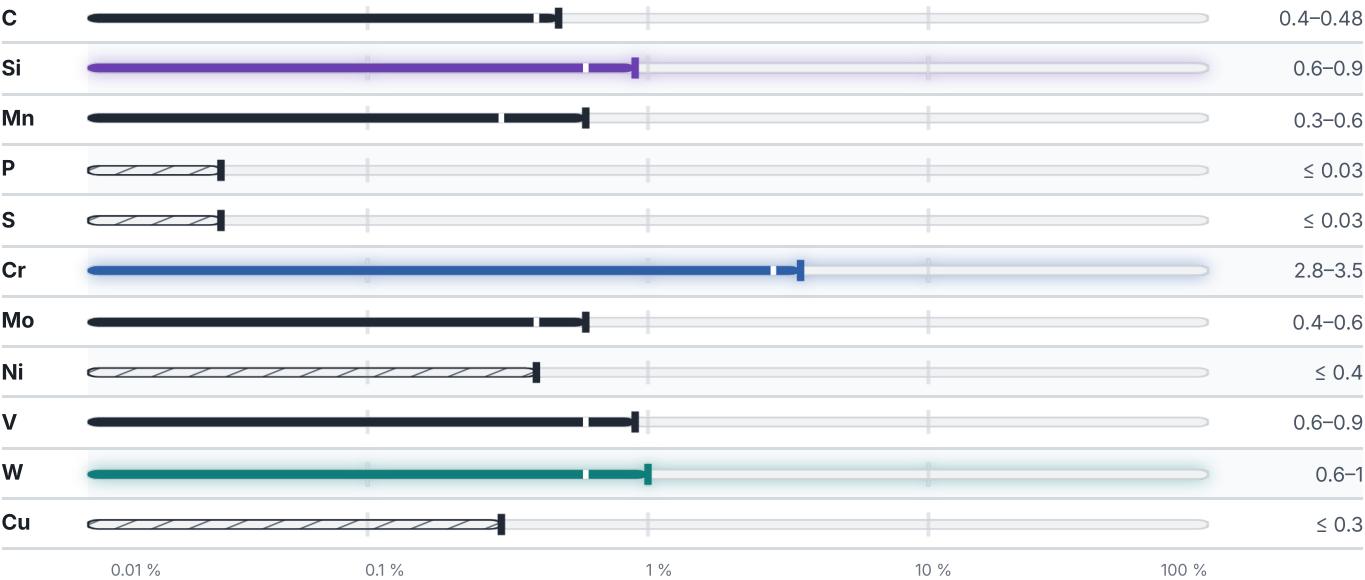
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 92.4 % ● Cr — 3.2 % ● W — 0.8 % ● Si — 0.8 % ● Traces & impurities · 2.9 %

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

4 values across 2 conditions

QUENCHING 1040 - 1060°C, OIL, DRAWING 560 - 580°C,DRAWING 530 - 570°C	RM N/mm ²	RE N/mm ²	KCU kJ/m ²
10	1720	1520	560
CONDITION · DIMENSION			HB
4KH3VMF (4X3BMΦ) (annealing) , GOST 5950-2000			241

Physical properties

4 values

PROPERTY	VALUE	UNIT
Transformation point Ac1	800	°C
Transformation point Ac3	850	°C
Transformation point Ar3	760	°C
Transformation point Ar1	730	°C

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
3И2	gost
4KH3VMF This grade's own name	gost
4X3BMΦ	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 3И2

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	—	Aug 15, 2026