

4X14H14B2M

also listed as 45KH14NMV2M

Chemical composition, mechanical and physical property values, and 4 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	10 on file

Chemical composition

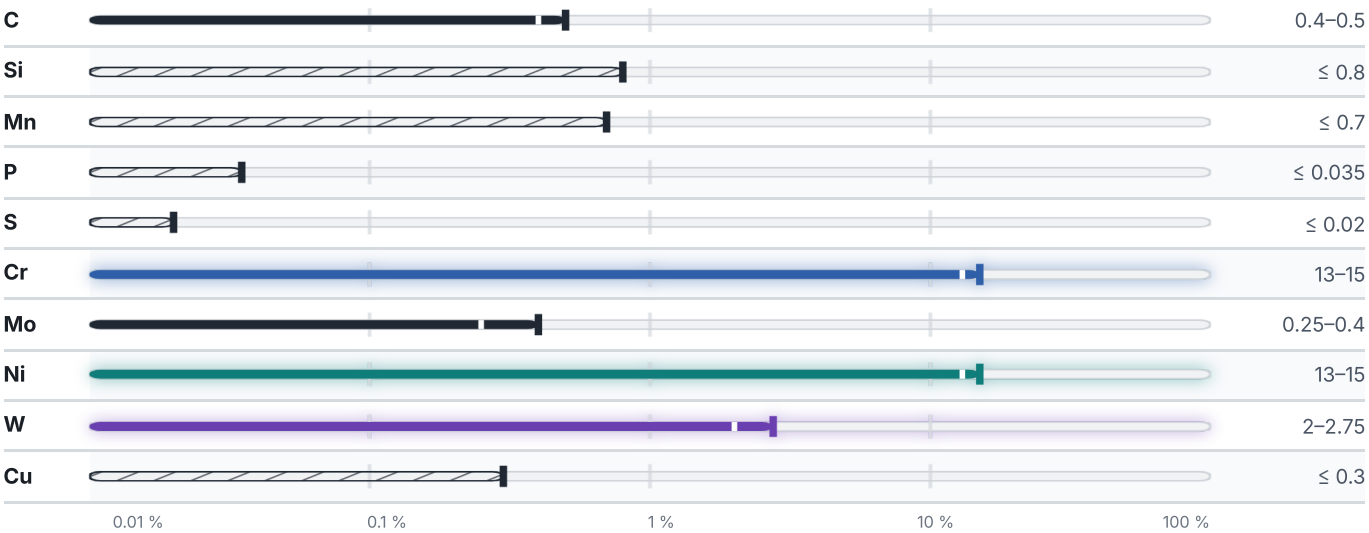
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 67 % · Cr — 14 % · Ni — 14 % · W — 2.4 % · Traces & impurities · 2.6 %

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
Bar	720	320	20	25	500

Physical properties

0 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)
20	8	212	–	13.9	–
100	–	200	–	13.6	–
200	–	194	–	16.7	–
300	–	185	17	18.8	507
400	–	176	–	19.8	512
500	–	169	18	20.9	520
550	–	166	–	–	–
600	–	160	–	21.9	528
650	–	157	–	–	–
700	–	152	18	24.4	–
750	–	148	–	–	–
800	–	144	–	–	–

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
45KH14NMV2M This grade's own name	gost
45X14HMB2M	gost
4X14H14B2M	gost
ЭИ69	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 4X14H14B2M

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

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MATERIAL NO.

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ISSUED

Aug 15, 2026