

ДИ23

also listed as 5KH3V3MFS

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

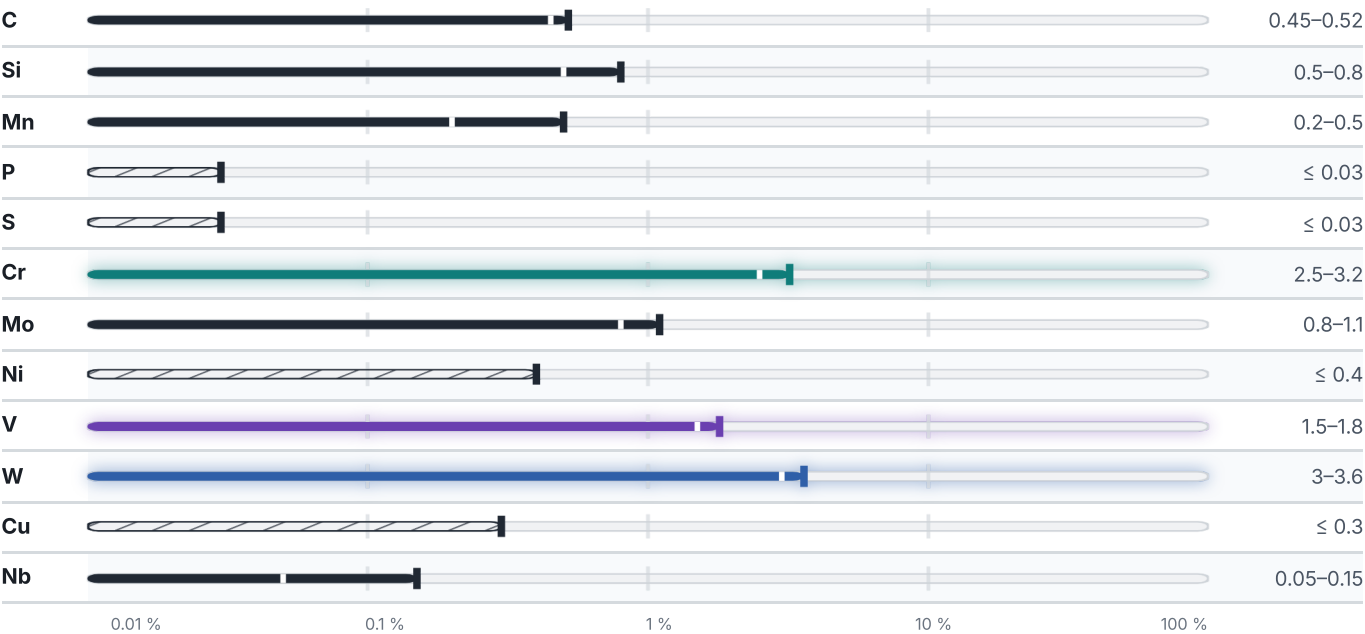
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 88.9 % W — 3.3 % Cr — 2.9 % V — 1.7 % Traces & impurities · 3.3 %

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

6 values across 2 conditions

QUENCHING 1130°C, OIL, DRAWING	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
15	1680	1500	8	38	250
CONDITION · DIMENSION					HB
5KH3V3MFS (5X3B3MΦC) (annealing) , GOST 5950-2000					229–241

Physical properties

3 values

PROPERTY	VALUE	UNIT
Transformation point Ac1	780	°C
Transformation point Ac3	920	°C
Transformation point Ar3	725	°C

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
5KH3V3MFS This grade's own name	gost
5X3B3MΦC	gost
ДИ23	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 ДИ23

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