

55X6B3CMΦ

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

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	14 on file

Chemical composition

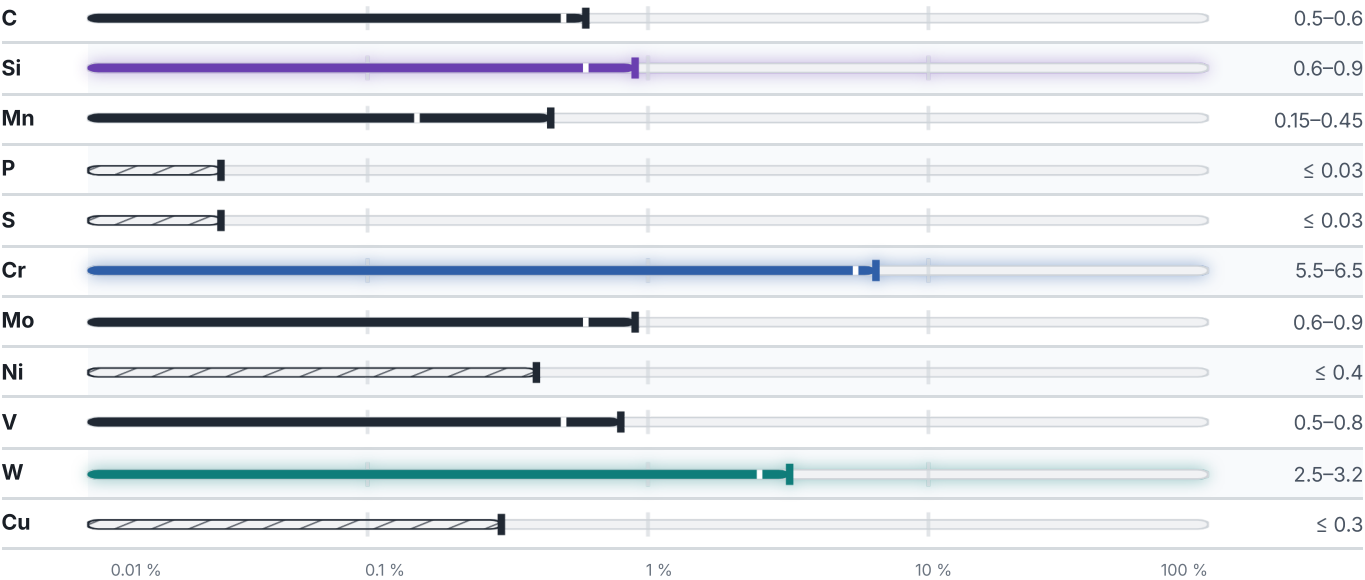
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 87.4 % ● Cr — 6 % ● W — 2.9 % ● Si — 0.8 % ● Traces & impurities · 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

2 values across 2 conditions

CONDITION · DIMENSION	RE N/mm ²
Quenching and drawing	1800–2000
CONDITION · DIMENSION	HB
6KH6V3MFS (6X6B3MΦC) (annealing) , GOST 5950-2000	255

Physical properties

3 values

PROPERTY	VALUE	UNIT
Transformation point Ac1	875	°C
Transformation point Ac3	905	°C
Transformation point Ar1	755	°C

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
55X6B3CMΦ	gost
6KH6V3MFS This grade's own name	gost
6X6B3MΦC	gost
ЭП569	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 55X6B3CMΦ

[Start an enquiry](#)

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

DATASHEET ONLINE

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MATERIAL NO.

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ISSUED

Aug 15, 2026