

3П752

also listed as 12KH12MVFBR

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

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 1 regions	12 on file

Chemical composition

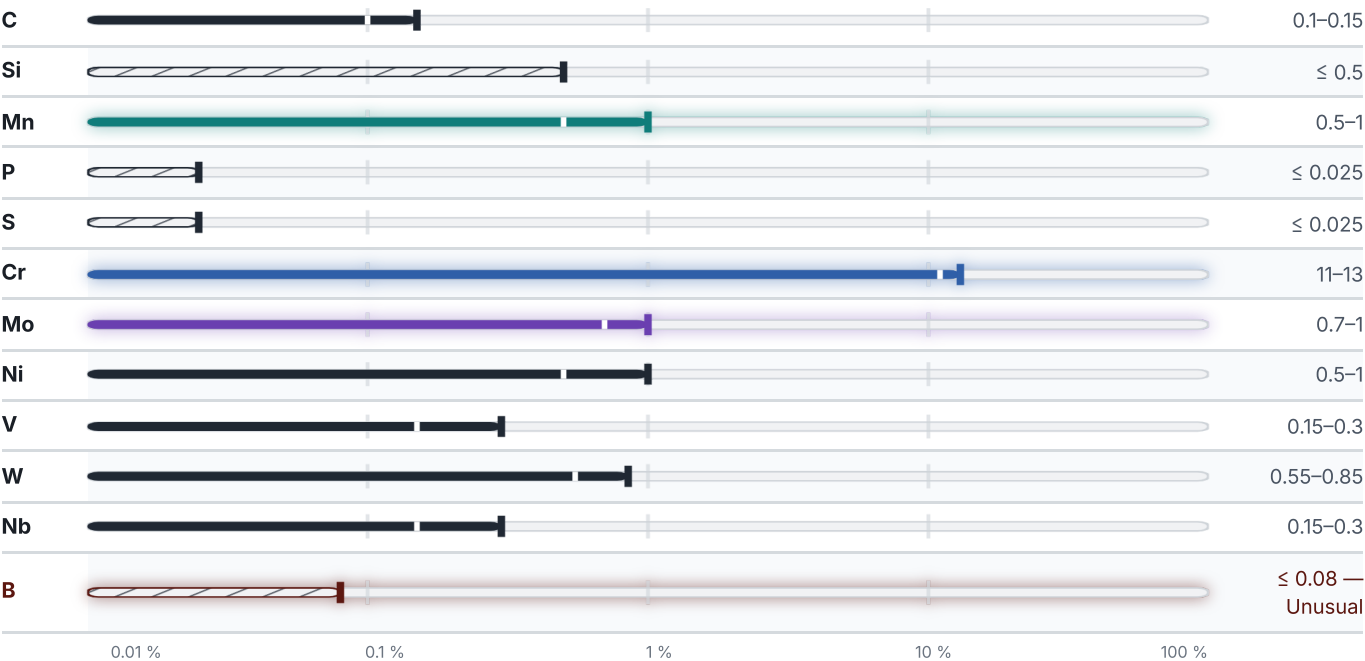
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 83.7 % Cr — 12 % Mo — 0.9 % Mn — 0.8 % Traces & impurities · 2.7 %

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

8 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Pipe	820	640	17	–	–
Blank for pipe	880	740	20	64	1300

Physical properties

0 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ^{^-6} /K	LAMBDA W/(m·K)
20	7.85	228	–	27.6
100	–	–	11.15	21.8
200	–	215	11.13	24
300	–	209	11.42	25.1
400	–	195	11.8	26.3
500	–	188	12	27.2
600	–	173	12.15	28
700	–	155	12.15	28.9
800	–	–	12.65	–
900	–	–	11.6	–

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
12KH12MVFBR This grade's own name	gost
12X12MBΦБP	gost
ЭП752	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 3П752

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

[Start an enquiry](#)

DATASHEET ONLINE

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MATERIAL NO.

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ISSUED

Aug 15, 2026