

10X9MΦБ

also listed as 10Kh9MFB-Sh

Chemical composition, mechanical and physical property values, and 5 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
5 in 1 regions	12 on file

Chemical composition

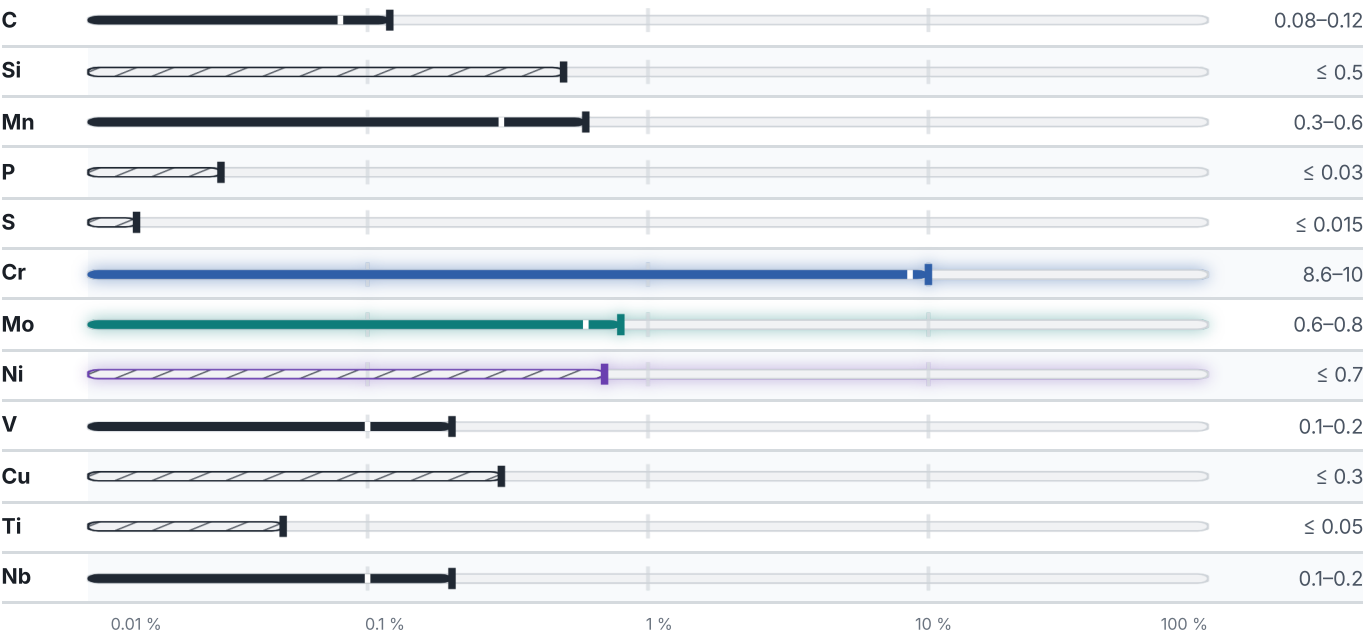
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 87.6 % ● Cr — 9.3 % ● Mo — 0.7 % ● Ni — 0.7 % ● Traces & impurities · 1.7 %

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

11 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²	HB
Pipe	600	400	19	55	780	–
Pipe	600	400	17	50	590	–
10Kh9MFB-Sh (10X9MΦБ-Ш) , Pipe	–	–	–	–	–	255

Designations across standards

5 designations · 1 documented as identical

Russia / CIS	5
10Kh9MFB-Sh This grade's own name	gost
10X9MΦБ	gost
10X9MΦБ-Ш	gost
ДИ82	gost
ДИ82-Ш	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 10X9MΦБ

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