

X12H2BMΦ

also listed as 11KH11N2V2MF

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

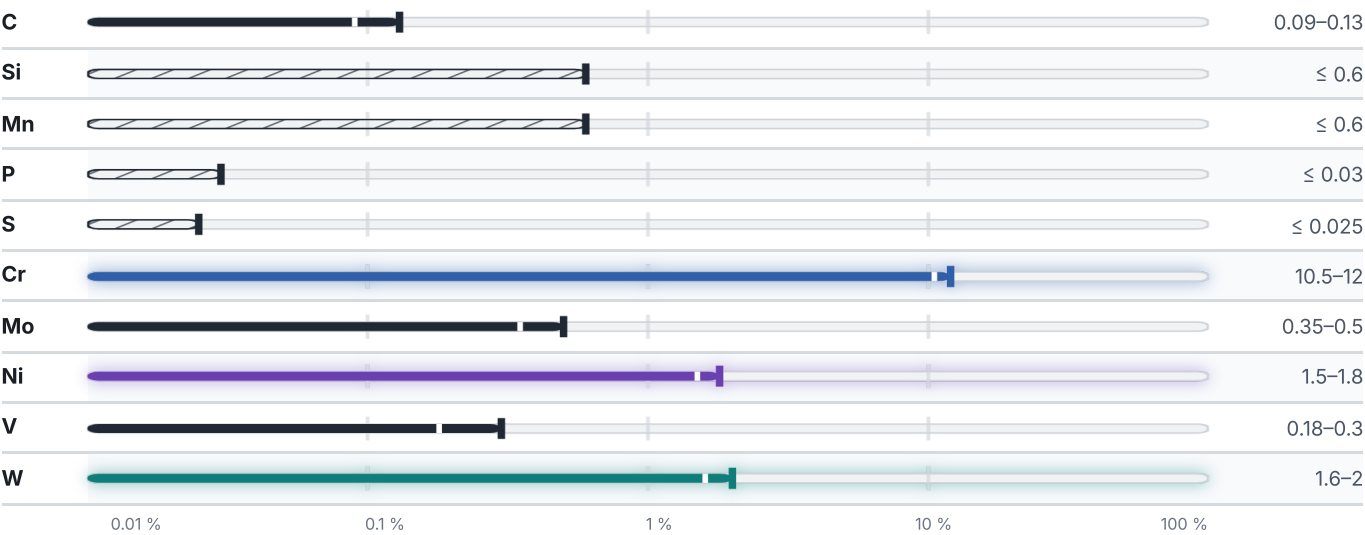
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 83.3 % ● Cr — 11.3 % ● W — 1.8 % ● Ni — 1.7 % ● Traces & impurities · 2 %

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 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²	HB
Bar, GOST 5949-75	835–980	735–835	10–12	50–55	590–690	–
11KH11N2V2MF (11X11H2B2MΦ) (annealing) , Bar GOST 5949-75	–	–	–	–	–	285
CONDITION · DIMENSION	RM N/mm ²			A5 %		
Sheet thin, GOST 5582-75	830			22		

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
11KH11N2V2MF This grade's own name	gost
11X11H2B2MΦ	gost
X12H2BMΦ	gost
ЭИ962	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 X12H2BMΦ

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