SteelEquivalents.com

Material datasheet
As of Aug 15, 2026

ЭП761

also listed as 8KH4V2MFS2

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

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 1 regions	**14** on file

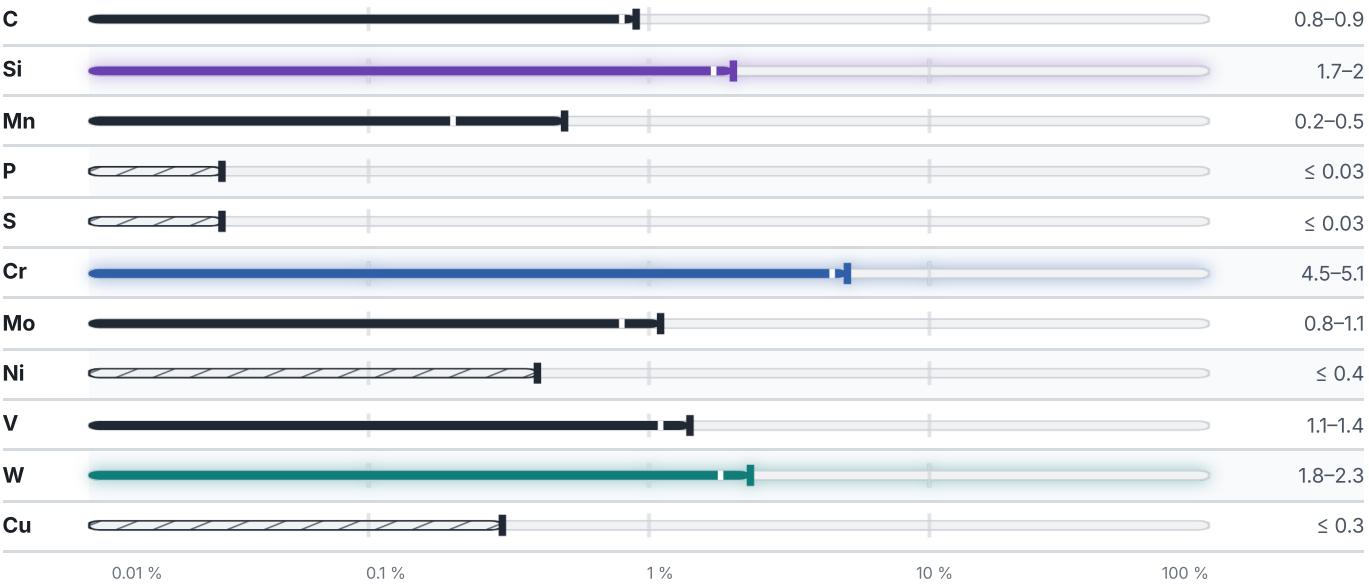
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 87.1 % · Cr — 4.8 % · W — 2.1 % · Si — 1.9 % · Traces & impurities · 4.2 %

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

2 values across 2 conditions

CONDITION · DIMENSION	RE N/mm²
Quenching and drawing	2700–2800

CONDITION · DIMENSION	HB
8KH4V2MFS2 (8Х4В2МФС2) (annealing) , GOST 5950-2000	255

Physical properties

3 values

PROPERTY	VALUE	UNIT
Transformation point Ac1	840	°C
Transformation point Ac3	880	°C
Transformation point Ar1	785	°C

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
8KH4V2MFS2 This grade's own name	gost
8Х4В2МФС2	gost
ЭП761	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 ЭП761

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