SteelEquivalents.com

Material datasheet
As of Aug 15, 2026

ДИ32

also listed as 5KH2MNF

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

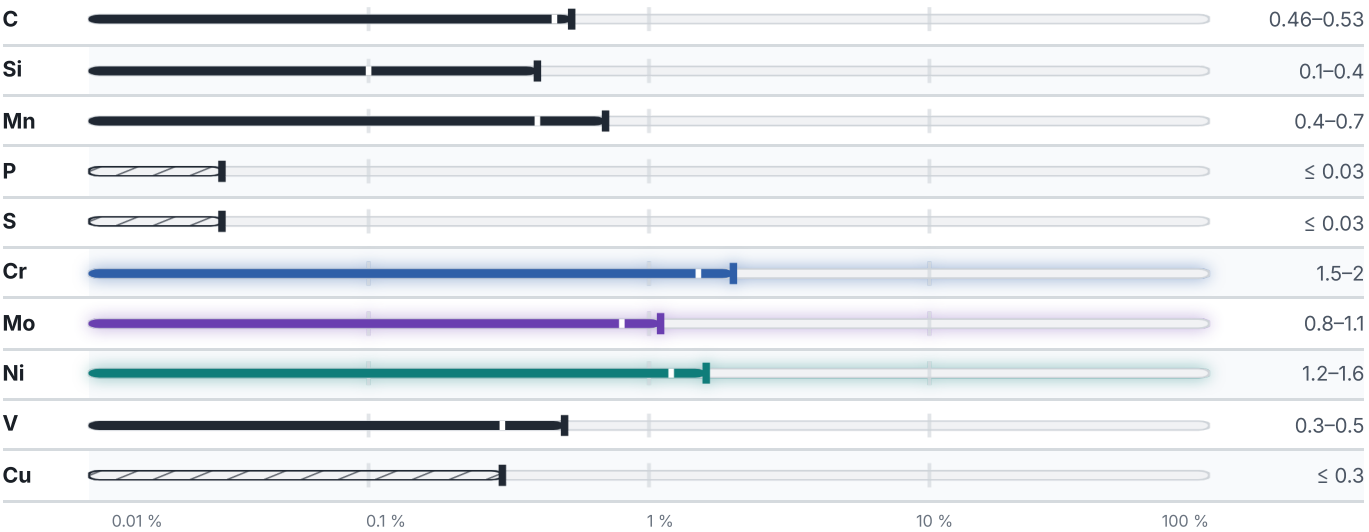
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 93.8 % · Cr — 1.8 % · Ni — 1.4 % · Mo — 1 % · Traces & impurities · 2.1 %

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

6 values across 2 conditions

QUENCHING COOLING OIL	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
15	1750	1500	10	40	550

CONDITION · DIMENSION	HB
5KH2MNF (5X2MHФ) (annealing) , GOST 5950-2000	255

Physical properties

4 values

PROPERTY	VALUE	UNIT
Transformation point Ac1	740	°C
Transformation point Ac3	815	°C
Transformation point Ar3	730	°C
Transformation point Ar1	650	°C

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
5KH2MNF This grade's own name	gost
5X2MHФ	gost
ДИ32	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 ДИ32

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