

X17H5M3

also listed as 08KH17N5M3

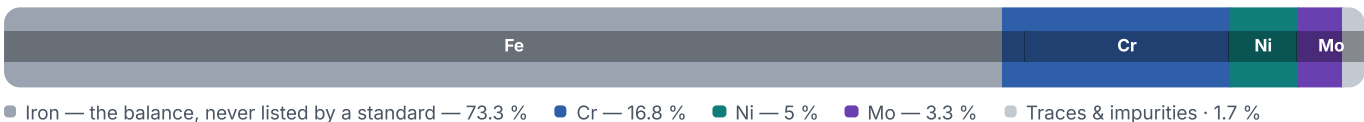
Chemical composition, mechanical and physical property values, and 4 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	9 on file

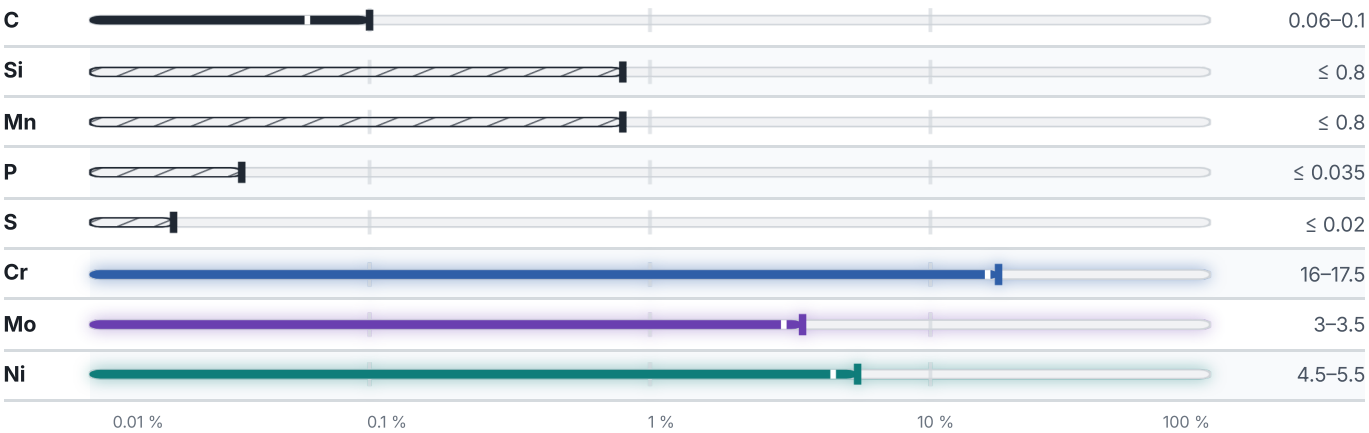
Chemical composition

Mass fraction in %

What this alloy is



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

13 values across 3 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²	HB
Forging, GOST 25054-81	1176	833	10–15	35–40	390–690	–
Sheet thin cold-worked , GOST 4986-79	1230	–	2–4	–	–	–
08KH17N5M3 (08X17H5M3) , Forging GOST 25054-81	–	–	–	–	–	341–415
CONDITION · DIMENSION	RM N/mm ²			A5 %		
Sheet thin, GOST 4986-79	1130			8–16		
CONDITION · DIMENSION	RM N/mm ²		RE N/mm ²		A5 %	
Sheet thin, GOST 5582-75	1180		610		20	

Physical properties

1 values

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
08KH17N5M3 This grade's own name	gost
08X17H5M3	gost
X17H5M3	gost
ЭИ925	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 X17H5M3

[Start an enquiry](#)

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

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MATERIAL NO.

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ISSUED

Aug 15, 2026