

ЭП-307

also listed as 08KH18G8N2T

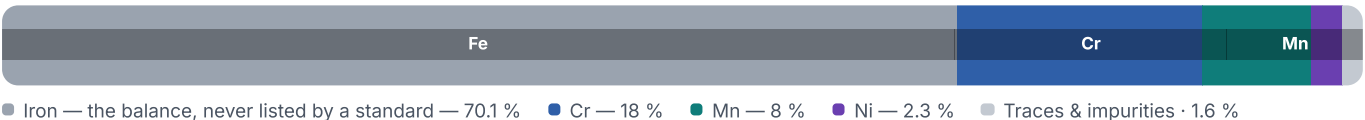
Chemical composition, mechanical and physical property values, and 6 standard designations from 1 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
6 in 1 regions	10 on file

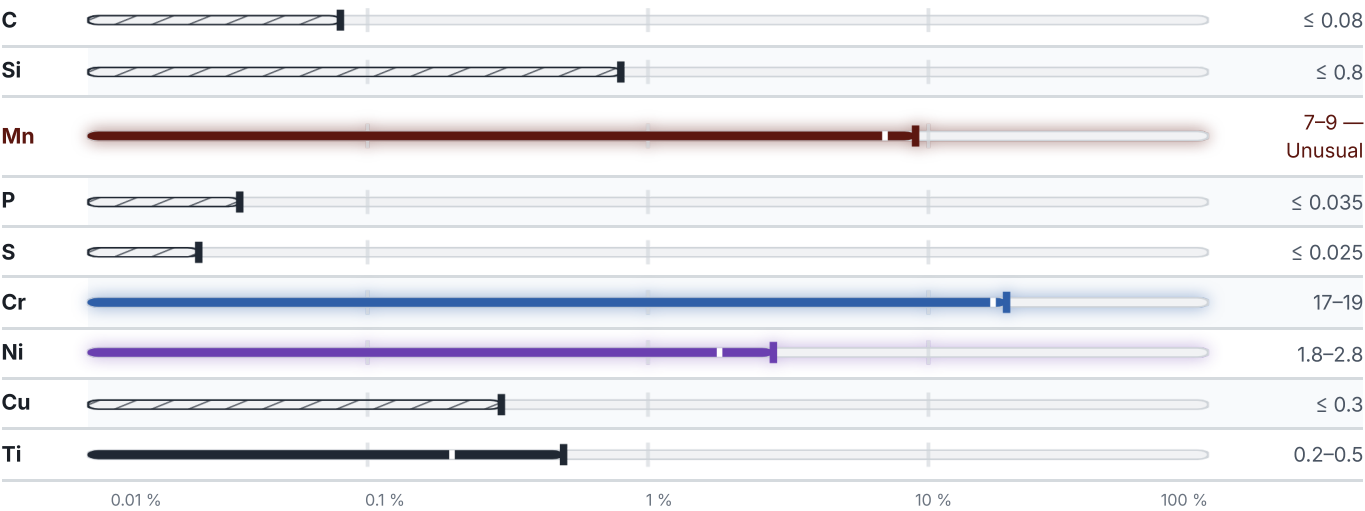
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Mo.

Mechanical properties

6 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²		
to 600	588	265		
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	KCU kJ/m ²
Sheet trick, GOST 7350-77	590	345	20	590

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.7	212	—	21	—	710
100	—	203	12.3	—	462	—
200	—	195	—	—	—	—
300	—	184	—	—	—	—
400	—	177	—	—	—	—
500	—	164	—	—	—	—
600	—	167	—	—	—	—
700	—	146	—	—	—	—
800	—	161	—	—	—	—

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

6 designations · 1 documented as identical

Russia / CIS	6
08KH18G8N2T This grade's own name	gost
08X18Г8H2T	gost
0X18Г8H2T	gost
Sv-08Kh18N8G2B	gost
KO-3	gost
ЭП-307	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 ЭП-307

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

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MATERIAL NO.

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ISSUED

Aug 15, 2026