

0X18T1

also listed as 08KH18T1

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

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 1 regions	10 on file

Chemical composition

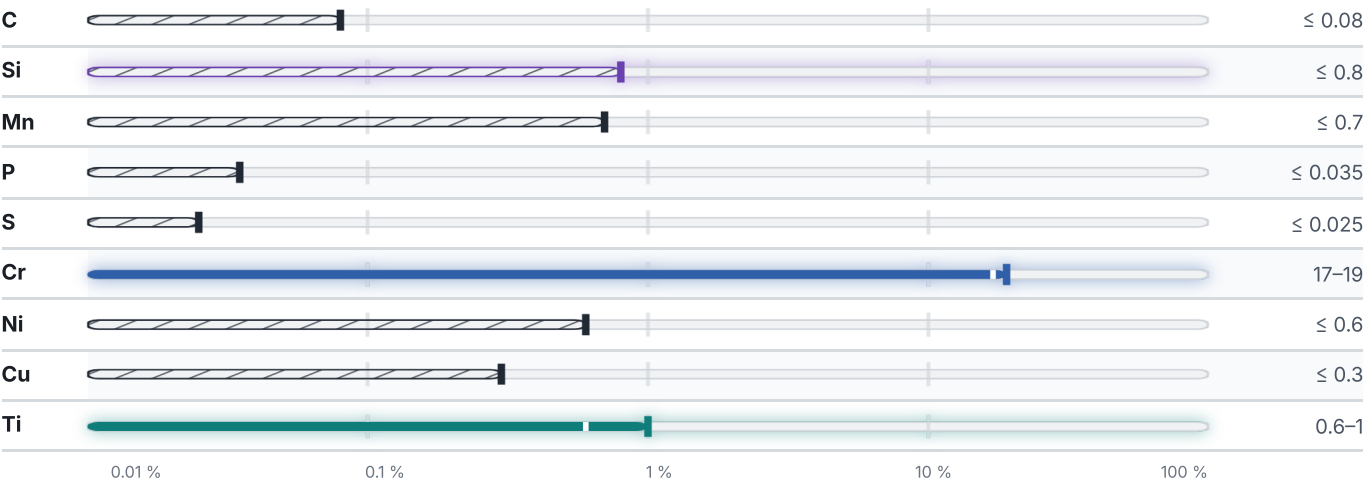
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 78.7 % ● Cr — 18 % ● Si — 0.8 % ● Ti — 0.8 % ● Traces & impurities · 1.7 %

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

4 values across 2 conditions

ANNEALING 830 - 860°C, AIR	RM N/mm ²	A5 %
to 4	460	30
CONDITION · DIMENSION	RM N/mm ²	A5 %
Pipe, GOST 11068-81	450	28

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³
20	7.72

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
08KH18T1 This grade's own name	gost
08X18T1	gost
0X18T1	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 0X18T1

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

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ISSUED

Aug 15, 2026