

3N711

also listed as 10KH14G14N4T

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

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	10 on file

Chemical composition

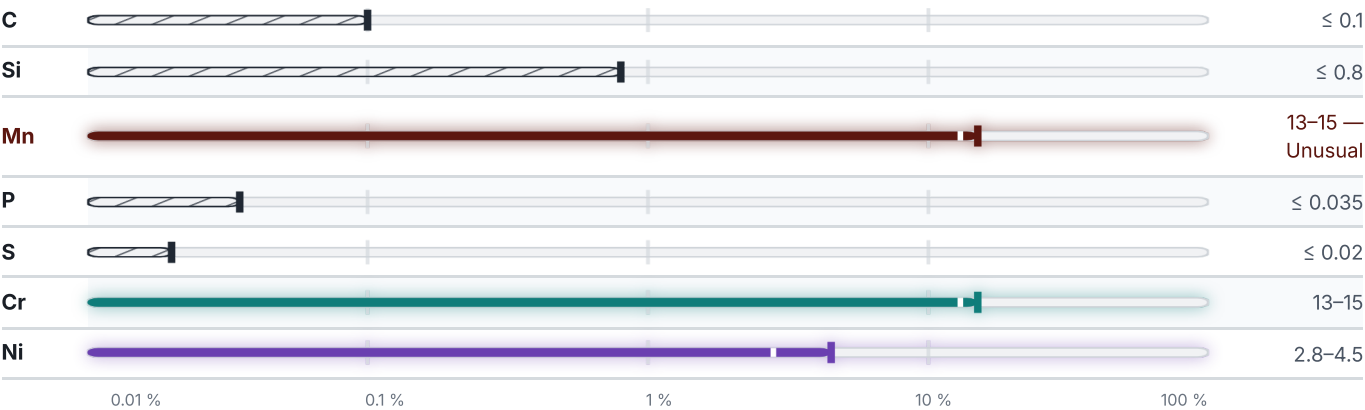
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 67.4 % Mn — 14 % Cr — 14 % Ni — 3.7 % Traces & impurities · 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

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

Mechanical properties

12 values across 4 conditions

QUENCHING 1000 - 1080°C, WATER		RM N/mm ²	RE N/mm ²	
to 600		637	245	
QUENCHING 1000 - 1080°C, COOLING AIR		RM N/mm ²	RE N/mm ²	A5 %
60		640	245	35
CONDITION · DIMENSION		RM N/mm ²	RE N/mm ²	A5 %
Sheet thick, GOST 7350-77		590	245	40
CONDITION · DIMENSION		RM N/mm ²	RE N/mm ²	A5 %
Sheet thin, GOST 5582-75		690	295	35

Physical properties

3 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)
20	7.8	194	–	15
100	–	189	16	17
200	–	181	16.7	18
300	–	170	17.5	21
400	–	164	18.4	24
500	–	159	19	30
600	–	161	19.5	36
700	–	–	20.1	43
800	–	–	20.6	51
900	–	–	21	–

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
10KH14G14N4T	This grade's own name gost
10X14Г14H4T	gost
X14Г14H3T	gost
ЭИ711	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 ЭИ711

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