

15Kh2GN2TA

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

OTHER DESIGNATIONS	PROPERTY VALUES
4 in 1 regions	14 on file

Chemical composition

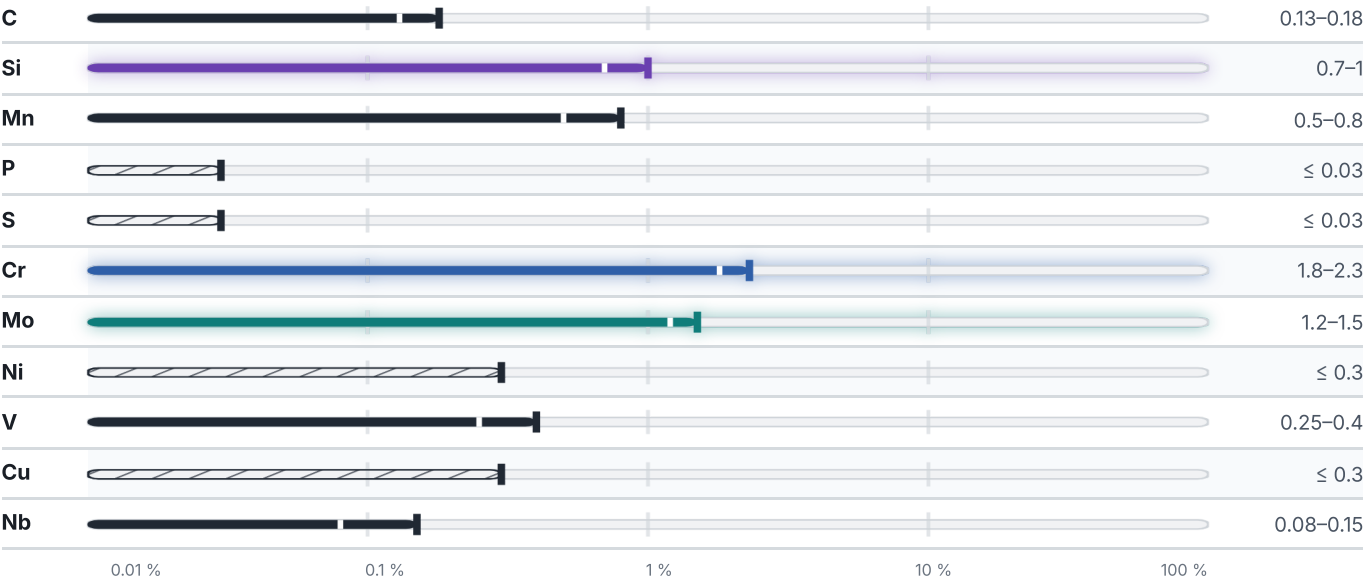
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 93.8 % ● Cr — 2.1 % ● Mo — 1.4 % ● Si — 0.9 % ● Traces & impurities · 1.9 %

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

15 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Pipe	550	380	18	50	600
Pipe	550	380	16	45	500
Forging	640	450	17	50	500

Physical properties

3 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	RHO_EL nΩ·m
20	7.85	224	–	–	450
100	–	219	12	34.8	460
200	–	–	–	34.3	520
300	–	205	–	34.1	600
400	–	–	14.5	33.9	670
500	–	187	–	33.7	770
600	–	176	–	33.5	950
700	–	164	–	–	–

PROPERTY	VALUE	UNIT
Transformation point Ac1	780	°C
Transformation point Ac3	1020	°C
Transformation point Ar3	830	°C

Designations across standards

4 designations · 1 documented as identical

Russia / CIS	4
15Kh2GN2TA	gost
15Kh2GN2TRA	gost
15Kh2M2FBS This grade's own name	gost
15X2M2ΦБC	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 15Kh2GN2TA

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