

3П56

also listed as 09KH16N4B

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

OTHER DESIGNATIONS	PROPERTY VALUES
3 in 1 regions	8 on file

Chemical composition

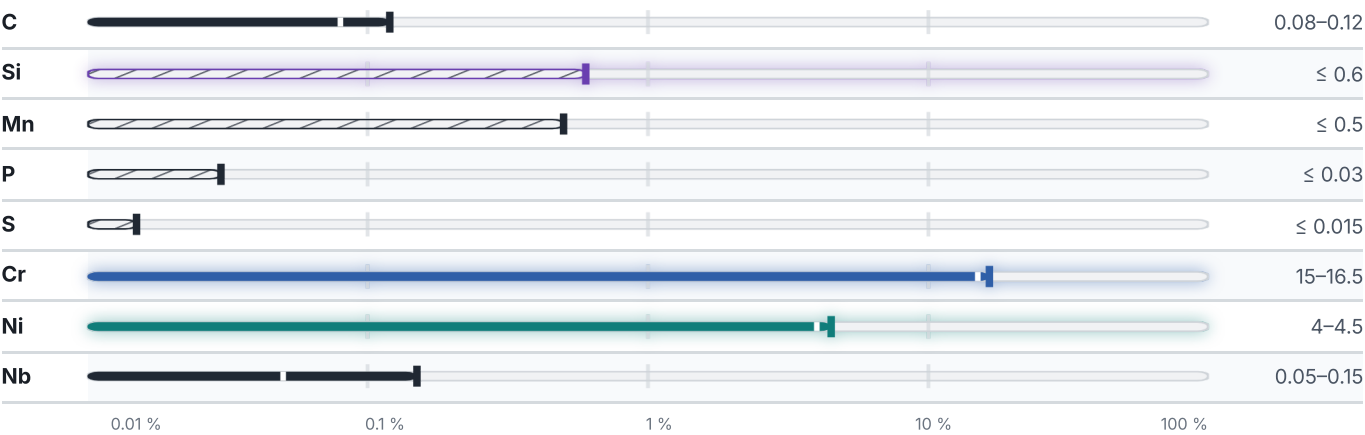
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 78.7 % Cr — 15.8 % Ni — 4.3 % Si — 0.6 % Traces & impurities · 0.7 %

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

18 values across 5 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²	HB
Bar, GOST 5949-75	980–1180	835–930	8	40–45	590	–
09KH16N4B (09X16H4Б) (annealing) , Bar GOST 5949-75	–	–	–	–	–	321
09KH16N4B (09X16H4Б) , Forging GOST 25054-81	–	–	–	–	–	269–302

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
to 600	931	784	7–8	35–42	490–590

CONDITION · DIMENSION	RM N/mm ²	A5 %
Sheet trick, GOST 7350-77	1030	13

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
Sheet trick, GOST 7350-77	1230	980	8

CONDITION · DIMENSION	RM N/mm ²
Sheet thin, GOST 5582-75	1130

Designations across standards

3 designations · 1 documented as identical

Russia / CIS	3
09KH16N4B This grade's own name	gost
09X16H4Б	gost
ЭП56	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 ЭП56

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