

MATERIAL NUMBER 1.4307 · CLASS 1.4

ЭП550

Material no. 1.4307

also listed as X2CrNi18-9

Chemical composition, mechanical and physical property values, and 88 standard designations from 13 regions.

DENSITY

7.9 g/cm³

OTHER DESIGNATIONS

88 in 13 regions

PROPERTY VALUES

9 on file

Chemical composition

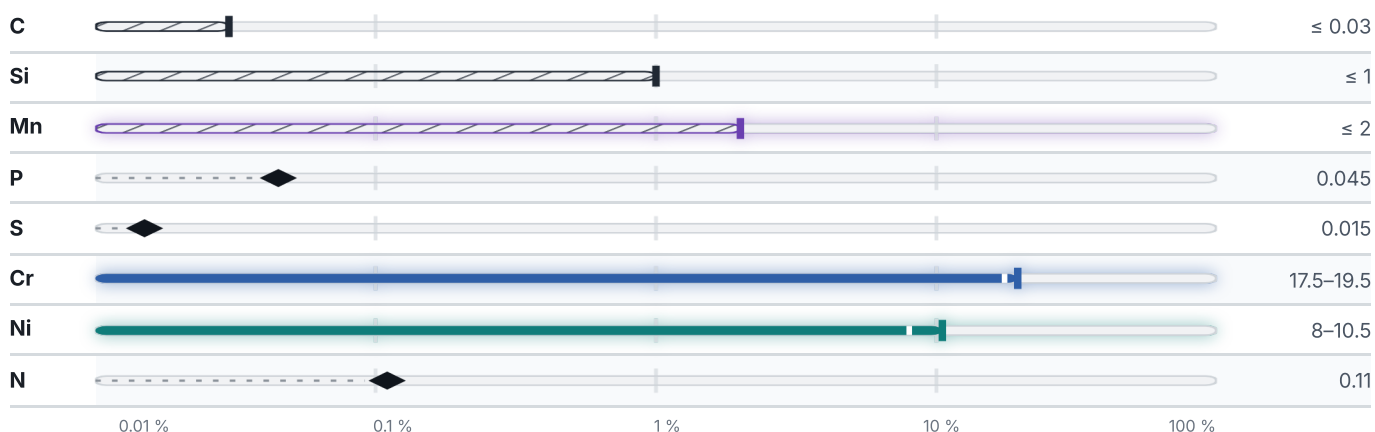
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 69.1 % ● Cr — 18.5 % ● Ni — 9.3 % ● Mn — 2 % ● Traces & impurities · 1.2 %

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

24 values across 6 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	HB	
Pipe cooling strain, GOST 9941-81	490	–	45	–	–	
Pipe hot strain, GOST 9940-81	441	–	40	–	–	
Forging, GOST 25054-81	441	157	38–40	45–50	–	
04KH18N10 (04X18H10) , Forging GOST 25054-81	–	–	–	–	179	
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	480	175	40	–	–	–
Hot-rolled	–	–	–	187	90	200
SOFT ANNEALED						HB
Soft annealed						215
SOLUTION ANNEALED						HB
Solution annealed						200
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %		
Bar, GOST 5949-75	440	155	40	55		
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %		
Sheet trick, GOST 7350-77	490	175	45	–	45	

Physical properties

1 values

CONDITION · DIMENSION			RHO g/cm ³
20			7.9
PROPERTY		VALUE	UNIT
Density		7.9	g/cm ³

88 designations · 4 documented as identical

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United Kingdom	1	Slovakia	1
304S11	bs	17 287	stn
Japan	1	Brazil	1
SUS304L	jis	304 L	abnt
Czechia	1	Australia / New Zealand	1
17287	csn	304L	as-nzs

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 3П550

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	1.4307	Aug 20, 2026