

MATERIAL NUMBER 1.4568 · CLASS 1.4

Z8CNA17-7

Material no. 1.4568

also listed as X7CrNiAl17-7

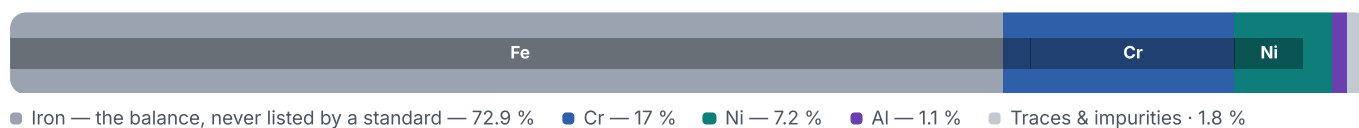
Chemical composition, mechanical and physical property values, and 42 standard designations from 11 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.8 g/cm ³	42 in 11 regions	9 on file

Chemical composition

Mass fraction in %

What this alloy is



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

5 values across 2 conditions

SOLUTION ANNEALED				HB
Solution annealed				255
CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	KCU kJ/m²
Sheet trick, GOST 7350-77	830	735	12	490

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.8	g/cm³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Ageing	Temperature not stated	—

Designations across standards

42 designations · 4 documented as identical

United States		15	Russia / CIS		8
AMS 5529/5528		uns	09Ch17N7Ju1		gost
AMS 5644		uns	09KH17N7YU		gost
AMS 5678		uns	09KH17N7YU1		gost
S17700	This grade's own name	uns	09X17H7IO		gost
17-7PH		aisi-sae	09X17H7IO		gost
631	This grade's own name	aisi-sae	09X17H7IO1		gost
J2171994	This grade's own name	aisi-sae	0X17H7IO		gost
S17700		aisi-sae	0X17H7IO1		gost
17-7PH		astm	United States / Aerospace		6
A 313		astm	5528		ams
A 564		astm	5529		ams
A 564 Type 631		astm	5568		ams
A 579		astm	5644		ams
A 693		astm	5678		ams
A 705		astm	5824		ams
France					3
Z8CNA17-07					afnor
Z8CNA17-7					afnor
Z9CNA17-07					afnor

Europe		2	International		1
1.4568	din-en		X7CrNiAl17-7	iso	
X7CrNiAl17-7	This grade's own name	din-en			
United Kingdom		2	China		1
301S81	bs		0Cr17Ni7Al	gb	
316S111 –	bs		Italy		1
			X2CrNiMo1712	uni	
Japan		2	Sweden		1
SUS 631-CSP	jis		2388	ss	
SUS631	jis				

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 Z8CNA17-7

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	1.4568	Aug 20, 2026