

MATERIAL NUMBER 1.4568 · CLASS 1.4

X7CrNiAl17-7

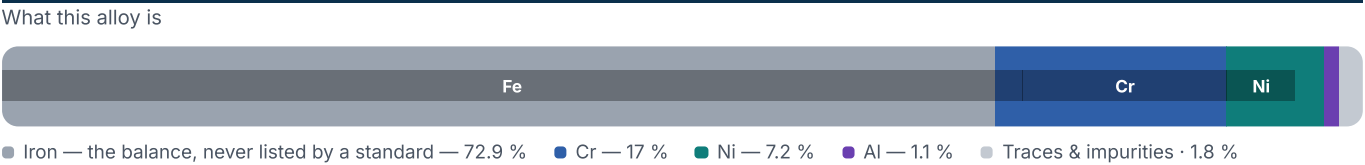
Material no. 1.4568

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

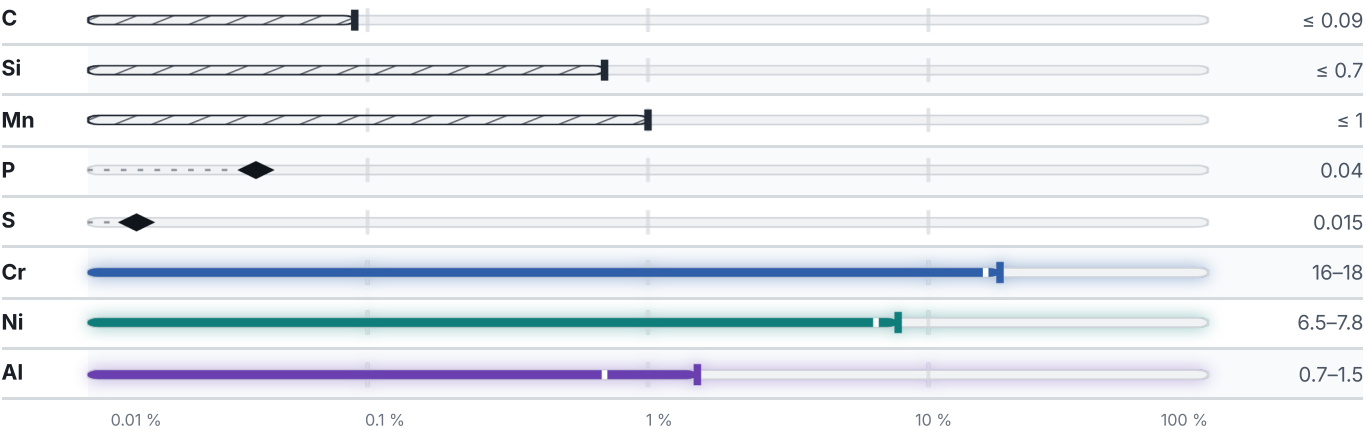
DENSITY 7.8 g/cm ³	OTHER DESIGNATIONS 42 in 11 regions	PROPERTY VALUES 9 on file
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Chemical composition

Mass fraction in %



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

Europe2		International1	
1.4568	din-en	X7CrNiAl17-7	iso
X7CrNiAl17-7	This grade's own name din-en		
United Kingdom2		China1	
301S81	bs	0Cr17Ni7Al	gb
316S111 –	bs		
Japan2		Italy1	
SUS 631-CSP	jis	X2CrNiMo1712	uni
SUS631	jis		
		Sweden1	
		2388	ss

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 X7CrNiAl17-7

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