

MATERIAL NUMBER 1.4511 · CLASS 1.4

X 5 CrNb 17

Material no. 1.4511

also listed as X3CrNb17

Chemical composition, mechanical and physical property values, and 24 standard designations from 11 regions.

DENSITY 7.7 g/cm ³	OTHER DESIGNATIONS 24 in 11 regions	PROPERTY VALUES 7 on file
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Chemical composition

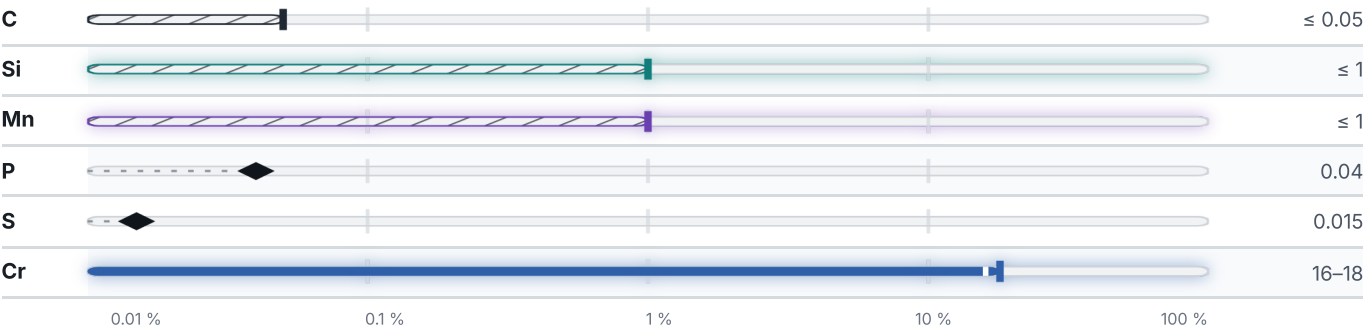
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 80.9 % ● Cr — 17 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 0.1 %

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: Ni, Mo.

Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB	HRB	HV
Plate/Sheet Hot-rolled	360	175	22	–	–	–
Hot-rolled	–	–	–	183	88	200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

24 designations · 3 documented as identical

United States	5	France	2
S43035	uns	Z4CNb17	afnor
S43900	uns	Z4CT17	afnor
430Ti	aisi-sae		
439	aisi-sae	China	2
S43036	aisi-sae	00Cr17	gb
		022Cr18Ti	gb
Spain	3		
F.3122	une	Russia / CIS	2
X 5 CrNb 17	une	08Ch17T	gost
X5CrTi17	une	08X17T	gost
Japan	3	Italy	2
SUS 430LXTB	jis	X6CrNb17	uni
SUS430J1L	jis	X6CrTi17	uni
SUS430LX This grade's own name	jis		
		International	1
Europe	2	FP18B	iso
X3CrNb17 This grade's own name	din-en		
X6CrNb17 This grade's own name	din-en	Poland	1
		0H17T	pn
		Romania	1
		8TiCr170	stas

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 X 5 CrNb 17

Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED

Aug 20, 2026