

MATERIAL NUMBER 1.4511 · CLASS 1.4

1.4511

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

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 24 in 11 regions	PROPERTY VALUES 7 on file
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Chemical composition

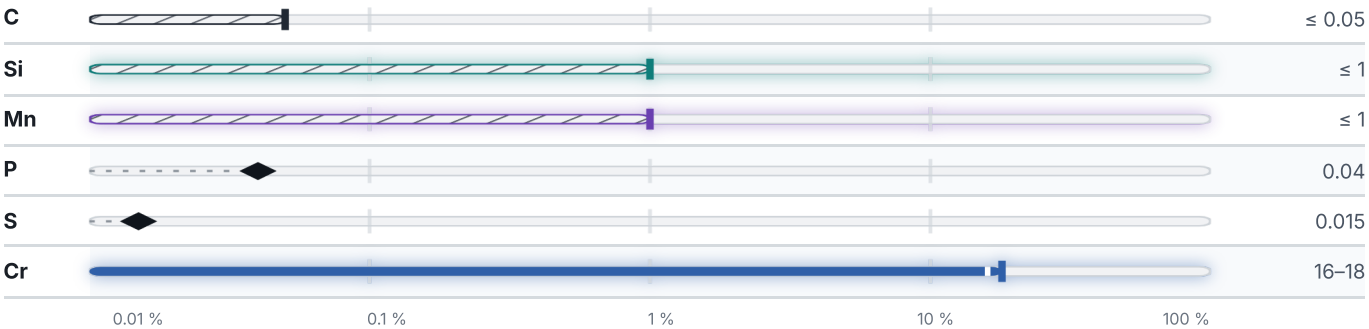
Mass fraction in %

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/mm²	RE N/mm²	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/cm³

Designations across standards

24 designations · 3 documented as identical

United States5		France2	
S43035	uns	Z4CNb17	afnor
S43900	uns	Z4CT17	afnor
430Ti	aisi-sae	China2	
439	aisi-sae	00Cr17gb	
S43036	aisi-sae	022Cr18Tigb	
Spain3		Russia / CIS2	
F.3122	une	08Ch17Tgost	
X 5 CrNb 17	une	08X17Tgost	
X5CrTi17	une	Italy2	
Japan3		X6CrNb17uni	
SUS 430LXTB	jis	X6CrTi17uni	
SUS430J1L	jis	International1	
SUS430LX	This grade's own namejis	FP18Biso	
Europe2		Poland1	
X3CrNb17	This grade's own namedin-en	0H17Tpn	
X6CrNb17	This grade's own namedin-en	Romania1	
		8TiCr170stas	

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 1.4511

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026