SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4510 · CLASS 1.4

F.3115

Material no. 1.4510

also listed as X3CrTi17

Chemical composition, mechanical and physical property values, and 42 standard designations from 13 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.7 g/cm³	42 in 13 regions	10 on file

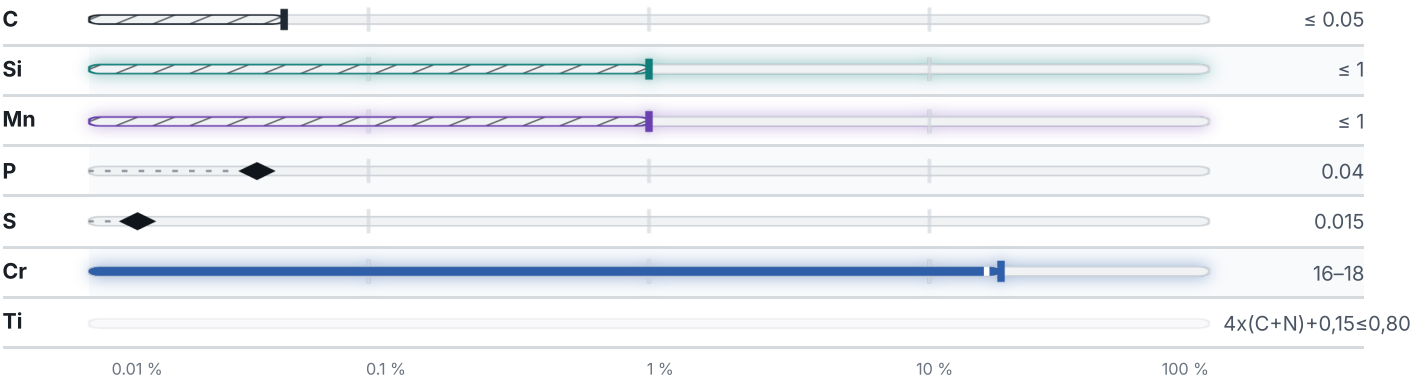
Chemical composition

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

8 values across 3 conditions

CONDITION · DIMENSION	RM N/mm²	A5 %
Pipe cooling strain, GOST 9941-81	372	17
Pipe hot strain, GOST 9940-81	372	17

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet trick, GOST 7350-77	440	18

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 5582-75	460	20

Physical properties

3 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	ALPHA 10^-6/K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.7	206	–	25	–	600
100	–	–	10	–	462	–
200	–	–	10	–	–	–
300	–	–	10.5	–	–	–
400	–	–	10.5	–	–	–
500	–	–	11	–	–	–

PROPERTY	VALUE	UNIT
Density	7.7	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Temper brittleness	predisposed	

Designations across standards

42 designations · 6 documented as identical

United States 16

S43035 This grade's own name	uns
S43036 This grade's own name	uns
S43900	uns
430 Ti 439	aisi-sae
430Ti This grade's own name	aisi-sae
439 This grade's own name	aisi-sae
S43035	aisi-sae
S43036	aisi-sae
S43900	aisi-sae
TP430Ti	aisi-sae
XM8 430 Ti 439	aisi-sae
A240	astm
A268	astm
A463	astm
A479	astm
A803	astm

Russia / CIS 5

08Ch17T	gost
08KH17T	gost
08X17T	gost
0X17T	gost
ЭИ645	gost

France 3

Z4CNb17	afnor
Z4CT17	afnor
Z8CT17	afnor

Spain 3

F.3114	une
F.3115	une
X5CrTi17	une

Japan 3

SUS 430LXTB	jis
SUS XM8TB	jis
SUS430LX	jis

Italy 3

X3CrTi17	uni
X6CrNb17	uni
X6CrTi17	uni

Europe 2

X3CrTi17 This grade's own name	din-en
X6CrTi17 This grade's own name	din-en

China 2

00Cr17	gb
022Cr18Ti	gb

International 1

FP18B	iso

Czechia 1

17041	csn

Poland 1

0H17T	pn

Serbia 1

Č.4970.1	srps

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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4510	Aug 20, 2026