SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4512 · CLASS 1.4

TP409

Material no. 1.4512

also listed as X2CrTi12

Chemical composition, mechanical and physical property values, and 27 standard designations from 9 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.7 g/cm³	**27** in 9 regions	**8** on file

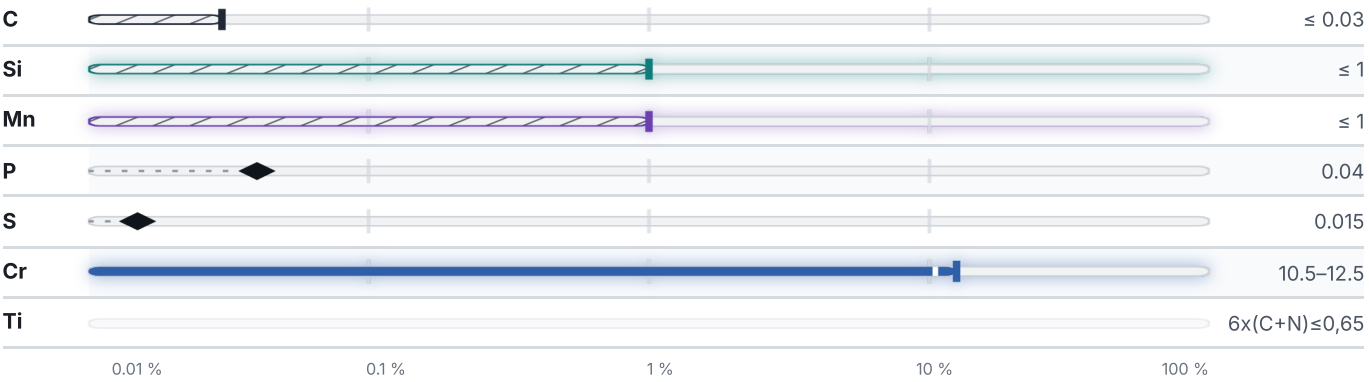
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 86.4 % · Cr — 11.5 % · 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

3 values across 1 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
Plate/Sheet	360	175	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm³

Designations across standards

27 designations · 4 documented as identical

United States (10)

S40900 This grade's own name	uns
409 This grade's own name	aisi-sae
51409	aisi-sae
S40900	aisi-sae
A1012	astm
A268	astm
A651	astm
A791	astm
A803	astm
TP409	astm

Japan (5)

SUH 409	jis
SUH 409L	jis
SUS 409LTB	jis
SUS 409TB	jis
SUS409L	jis

United Kingdom (3)

409S	bs
409S19	bs
LW 19	bs

Europe (2)

X2CrTi12 This grade's own name	din-en
X6CrTi12 This grade's own name	din-en

France (2)

Z3CT12	afnor
Z6CT12	afnor

Italy (2)

X2CrTi12	uni
X6CrTi12	uni

Spain (1)

F.3121	une

International (1)

X6CrTi12	iso

Brazil (1)

409	abnt

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	1.4512	Aug 20, 2026