

MATERIAL NUMBER 1.4512 · CLASS 1.4

409S19

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/cm ³	27 in 9 regions	8 on file

Chemical composition

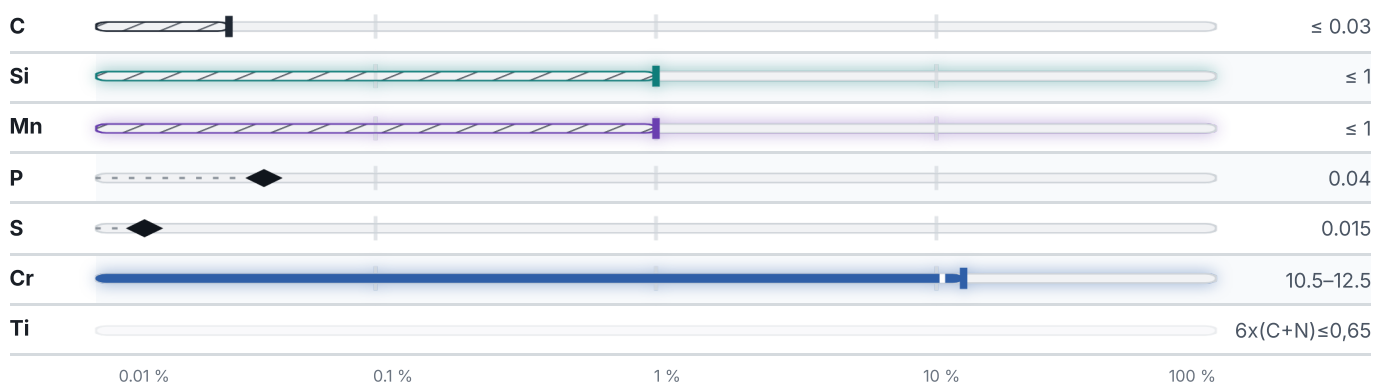
Mass fraction in %

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/mm ²	RE N/mm ²	A %
Plate/Sheet	360	175	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

27 designations · 4 documented as identical

United States10		Europe2	
S40900	This grade's own nameuns	X2CrTi12	This grade's own namedin-en
409	This grade's own nameaisi-sae	X6CrTi12	This grade's own namedin-en
51409	aisi-sae	France2	
S40900	aisi-sae	Z3CT12afnor	
A1012	astm	Z6CT12afnor	
A268	astm	Italy2	
A651	astm	X2CrTi12uni	
A791	astm	X6CrTi12uni	
A803	astm	Spain1	
TP409	astm	F.3121une	
Japan5		International1	
SUH 409	jis	X6CrTi12iso	
SUH 409L	jis	Brazil1	
SUS 409LTB	jis	409abnt	
SUS 409TB	jis		
SUS409L	jis		
United Kingdom3			
409S	bs		
409S19	bs		
LW 19	bs		

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 409S19

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

Start an enquiry