

MATERIAL NUMBER 1.4002 · CLASS 1.4

1.4002

Chemical composition, mechanical and physical property values, and 28 standard designations from 12 regions.

DENSITY 7.7 g/cm ³	OTHER DESIGNATIONS 28 in 12 regions	PROPERTY VALUES 8 on file
---	---	-------------------------------------

Chemical composition

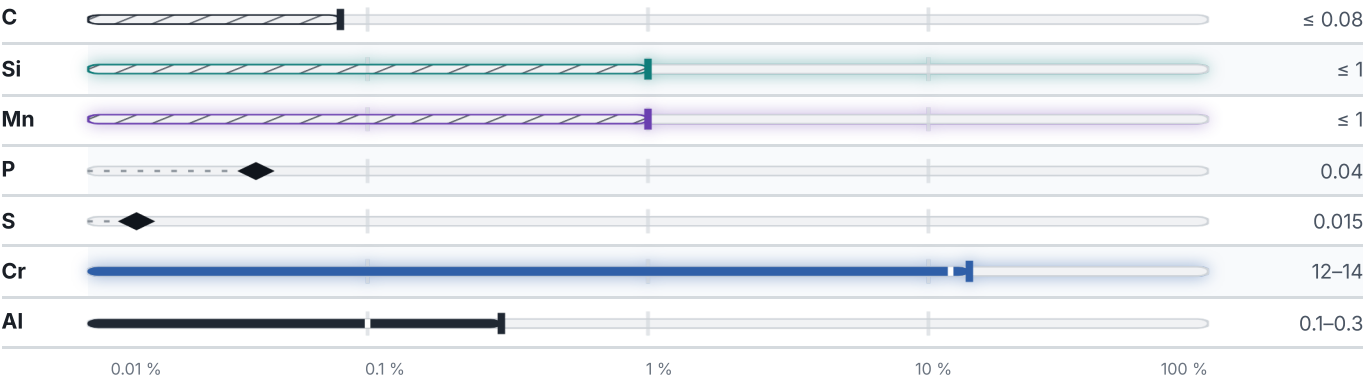
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 84.7 % ● Cr — 13 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 0.3 %

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	410	175	20	—	—	—

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

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

28 designations · 3 documented as identical

United States		12	Spain		2
S40500	This grade's own name	uns	F.3111		une
405	This grade's own name	aisi-sae	F.3111-X6CrAl13		une
51405		aisi-sae			
S40500		aisi-sae	Europe		1
A1012		astm	X6CrAl13	This grade's own name	din-en
A240		astm			
A268		astm	United Kingdom		1
A276		astm	405S17		bs
A473		astm			
A479		astm	China		1
A511		astm	0Cr13Al		gb
A580		astm			
France		3	Italy		1
Z6CA13		afnor	X6CrAl13		uni
Z6CrAl13		afnor	Sweden		1
Z8CA12		afnor	2302		ss
Japan		3	Czechia		1
SUS 405TB		jis	17125		csn
SUS 405TP		jis			
SUS405		jis	Poland		1
			0H13J		pn
			former Yugoslavia		1
			Č.49702		jus

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 1.4002

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](#)

MATERIAL NO.

1.4002

ISSUED

Aug 20, 2026