

MATERIAL NUMBER 1.4002 · CLASS 1.4

F.3111-X6CrAl13

Material no. 1.4002

also listed as X6CrAl13

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

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 28 in 12 regions	PROPERTY VALUES 8 on file
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Chemical composition

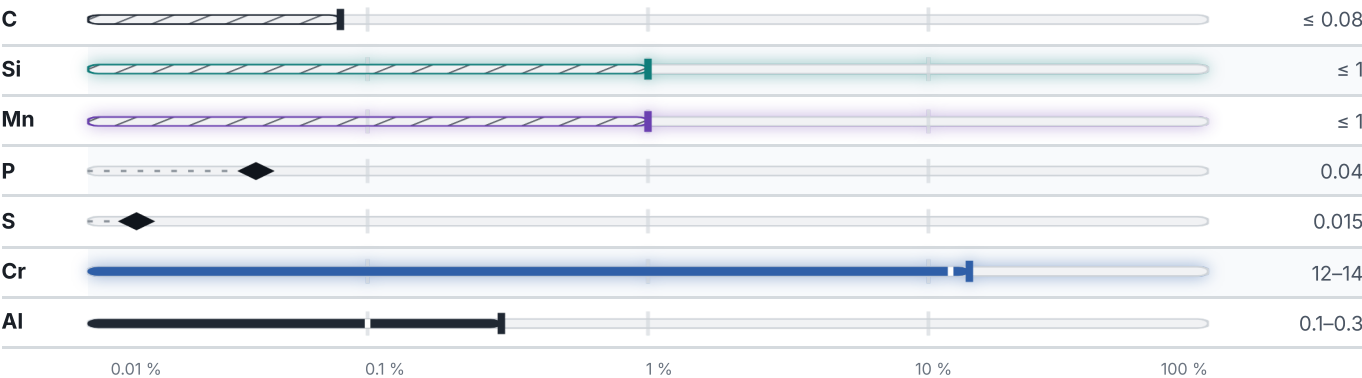
Mass fraction in %

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	–	–	–
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 F.3111-X6CrAl13

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

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ISSUED

Aug 20, 2026