

MATERIAL NUMBER 1.4034 · CLASS 1.4

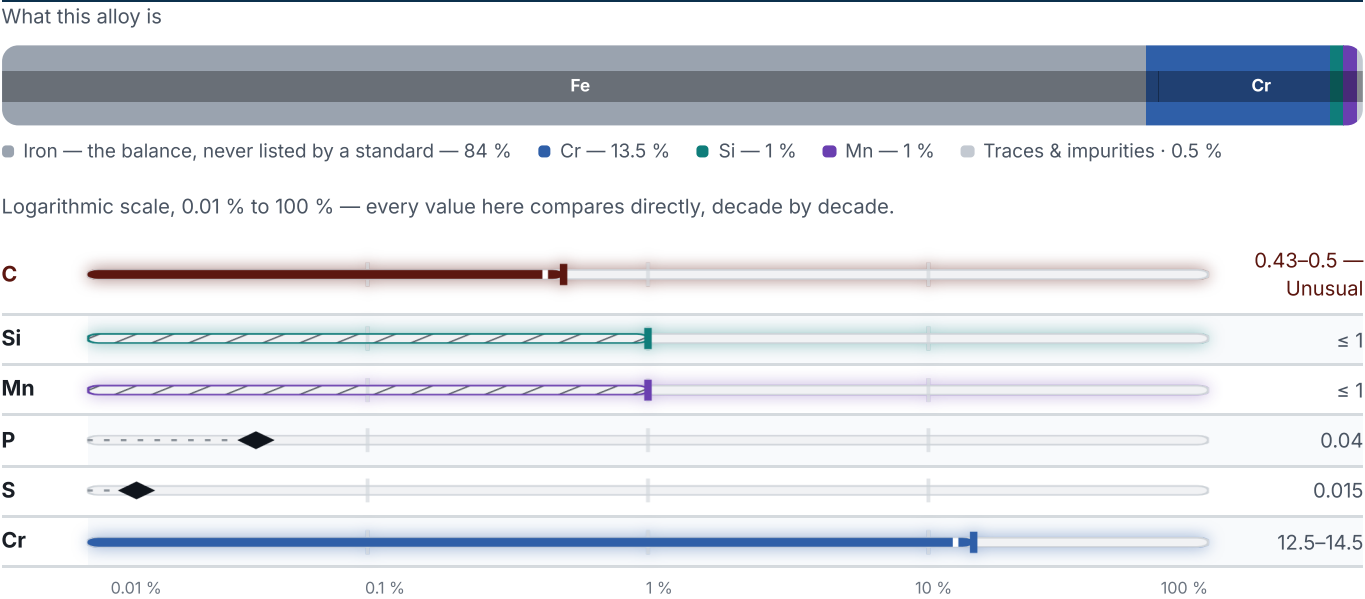
1.4034

Chemical composition, mechanical and physical property values, and 46 standard designations from 17 regions.

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 46 in 17 regions	PROPERTY VALUES 7 on file
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Chemical composition

Mass fraction in %



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

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	245

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

46 designations · 4 documented as identical

United States	14	Spain	2
S42000	uns	F.3405	une
S42080	uns	F.3405-X46Cr13	une
420	aisi-sae	United States / Aerospace	2
51420	aisi-sae	5506	ams
S42000	aisi-sae	5621	ams
A1049	astm	Poland	2
A176	astm	4H13	pn
A182	astm	4H14	pn
A276	astm	International	1
A314	astm	X40Cr14	iso
A473	astm	Japan	1
A580	astm	SUS420J2	jis
F1079	astm	China	1
F2215	astm	4Cr13	gb
France	6	Italy	1
Z38C13M This grade's own name	afnor	X40Cr14	uni
Z40C13	afnor	Sweden	1
Z40C14	afnor	2304	ss
Z40CM	afnor	Czechia	1
Z40Cr14	afnor	17 029	csn
Z44C14 This grade's own name	afnor	Brazil	1
United Kingdom	4	420	abnt
420S45	bs	Serbia	1
420S45 EN 56D	bs	Č.4175	srps
56D	bs	former Yugoslavia	1
EN56D	bs	Č.4175	jus
Russia / CIS	4		
40Ch13 This grade's own name	gost		
40KH13	gost		
40X13	gost		
40X13	gost		
Europe	3		
1.4034	din-en		
X40Cr13	din-en		
X46Cr13 This grade's own name	din-en		

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 1.4034
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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ISSUED
Sep 8, 2026