

MATERIAL NUMBER 1.2083 · CLASS 1.2

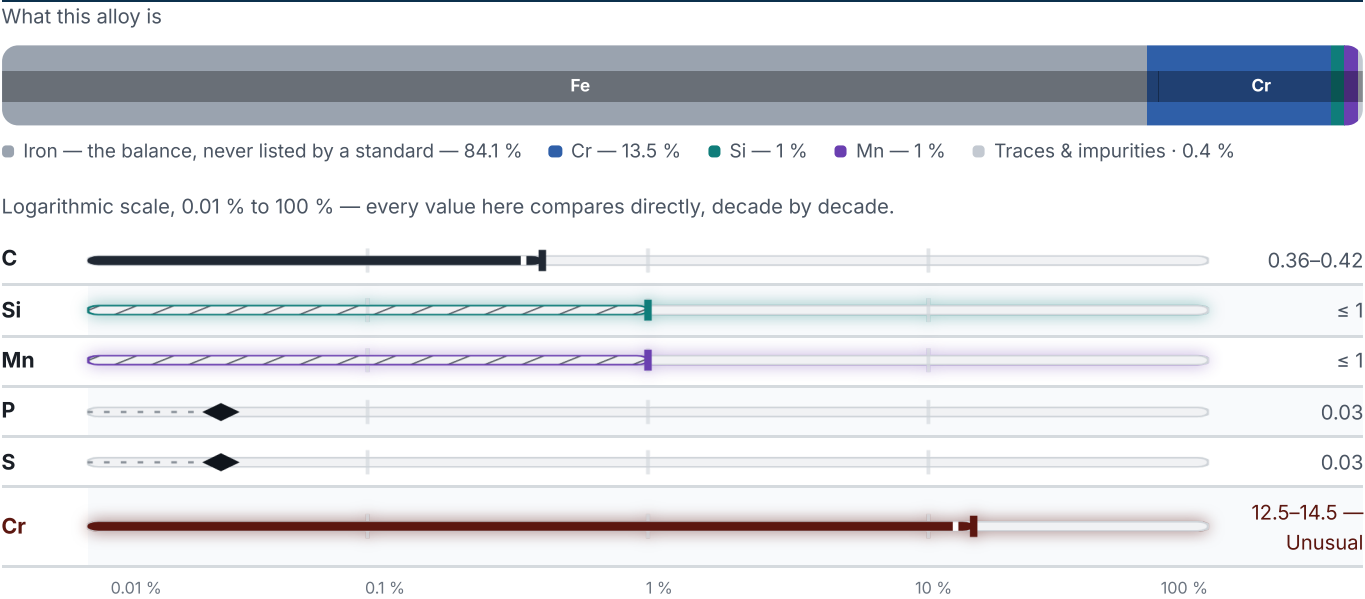
1.2083

Chemical composition, mechanical and physical property values, and 24 standard designations from 16 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 24 in 16 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	241

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

24 designations · 2 documented as identical

United States	3	Spain	1
S42000	uns	F.3403	une
S42080	uns		
420	aisi-sae	International	1
		X40Cr14	iso
Poland	3		
4H13	pn	Japan	1
4H13 jako grupa	pn	SUS420J2	jis
4H14	pn		
Europe	2	China	1
X40Cr14 This grade's own name	din-en	4Cr13	gb
X42Cr13 This grade's own name	din-en	Italy	1
		X40Cr14	uni
France	2		
Z40C13	afnor	Sweden	1
Z44C14	afnor	2304	ss
Russia / CIS	2	Slovakia	1
40Ch13	gost	17 024	stn
40X13	gost		
		Brazil	1
Czechia	2	420	abnt
17024	csn		
17029	csn	Serbia	1
		Č.4175	srps
United Kingdom	1		
420S37	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 1.2083

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

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ISSUED

Aug 20, 2026