SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.2083 · CLASS 1.2

4H13 jako grupa

Material no. 1.2083

also listed as X40Cr14

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

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	24 in 16 regions	7 on file

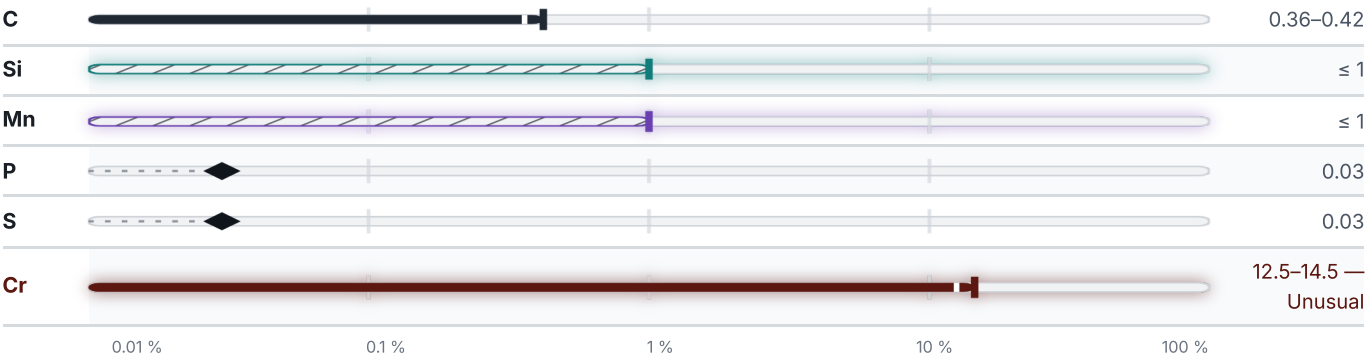
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 84.1 % · Cr — 13.5 % · Si — 1 % · Mn — 1 % · Traces & impurities · 0.4 %

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

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

S42000	uns
S42080	uns
420	aisi-sae

Poland 3

4H13	pn
4H13 jako grupa	pn
4H14	pn

Europe 2

X40Cr14 This grade's own name	din-en
X42Cr13 This grade's own name	din-en

France 2

Z40C13	afnor
Z44C14	afnor

Russia / CIS 2

40Ch13	gost
40X13	gost

Czechia 2

17024	csn
17029	csn

United Kingdom 1

420S37	bs

Spain 1

F.3403	une

International 1

X40Cr14	iso

Japan 1

SUS420J2	jis

China 1

4Cr13	gb

Italy 1

X40Cr14	uni

Sweden 1

2304	ss

Slovakia 1

17 024	stn

Brazil 1

420	abnt

Serbia 1

Č.4175	srps

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 4H13 jako grupa

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

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.2083	Aug 20, 2026