SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.2436 · CLASS 1.2

2313

Material no. 1.2436

also listed as X210CrW12

Chemical composition, mechanical and physical property values, and 31 standard designations from 16 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.6 g/cm³	31 in 16 regions	8 on file

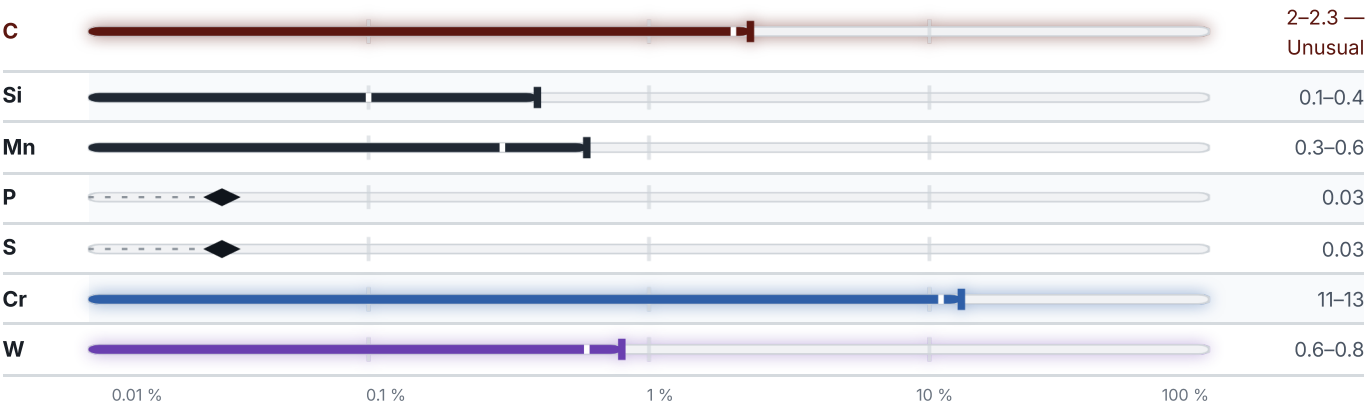
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 84.4 % · Cr — 12 % · C — 2.2 % · W — 0.7 % · Traces & impurities · 0.8 %

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

5 values across 3 conditions

CONDITION · DIMENSION	HB	HRC
Annealed	255	–
Quenched and tempered	–	62

SOFT ANNEALED	HB
Soft annealed	255

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet cold-rolled, GOST 21427.2-83	330–470	20–35

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm³	RHO_EL nΩ·m
20	7.75	400

PROPERTY	VALUE	UNIT
Density	7.6	g/cm³

Heat treatment

3 regimes

STEP	TEMPERATURE	MEDIUM
Quenching	Temperature not stated	—
Quenching	950–980 °C	Oil
Annealing	Temperature not stated	—

Designations across standards

31 designations · 1 documented as identical

United States 4

T30403	uns
T30406	uns
D 3	aisi-sae
D6	aisi-sae

France 4

X210CrW12-1	afnor
Z200C12	afnor
Z200CW12	afnor
Z210CW12-01	afnor

Russia / CIS 3

Ch12	gost
Kh12VM	gost
X12	gost

Italy 3

215CrW12-1KU	uni
X215CrW121KU	uni
X215CrW12KU	uni

Europe 2

1.2436	din-en
X210CrW12 This grade's own name	din-en

Spain	2
F.5213X210CrW12	une
X210CrW12	une

International	2
X210Cr12	iso
X210CrW12	iso

Sweden	2
2312	ss
2313	ss

Poland	2
NC10	pn
NC11	pn

United Kingdom	1
BD6	bs

Japan	1
SKD2	jis

China	1
Cr12W	gb

Czechia	1
19437	csn

Slovakia	1
19 437	stn

Serbia	1
Č.4650	srps

Croatia	1
Č4650	hrn

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 2313

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	1.2436	Aug 20, 2026