

MATERIAL NUMBER 1.2436 · CLASS 1.2

Z200CW12

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/cm ³	31 in 16 regions	8 on file

Chemical composition

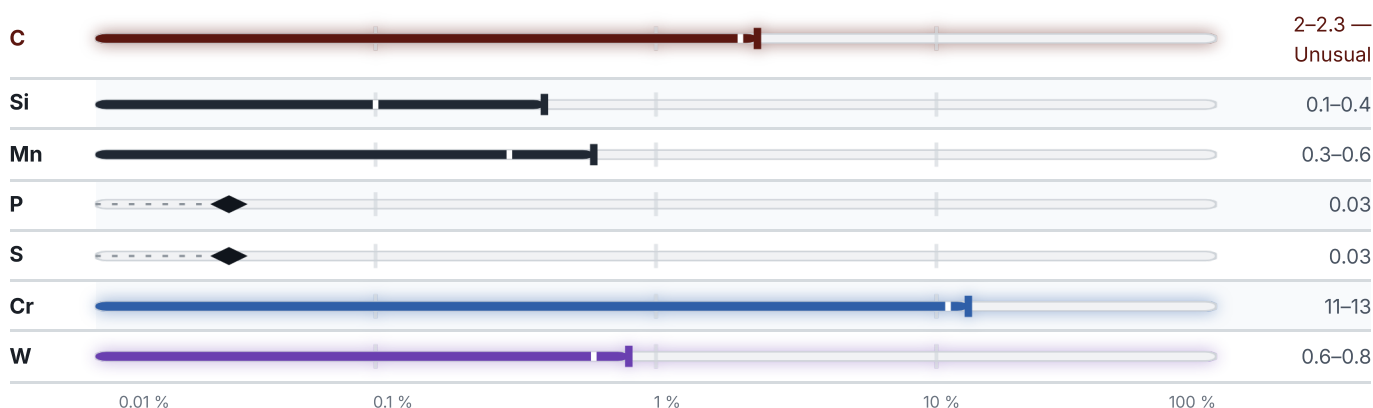
Mass fraction in %

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 States4		Russia / CIS3	
T30403	uns	Ch12	gost
T30406	uns	Kh12VM	gost
D 3	aisi-sae	X12	gost
D6	aisi-sae		
France4		Italy3	
X210CrW12-1	afnor	215CrW12-1KU	uni
Z200C12	afnor	X215CrW121KU	uni
Z200CW12	afnor	X215CrW12KU	uni
Z210CW12-01	afnor	Europe2	
		1.2436	din-en
		X210CrW12	din-en
		This grade's own name	

Spain	2	Japan	1
F.5213X210CrW12	une	SKD2	jis
X210CrW12	une		
International	2	China	1
X210Cr12	iso	Cr12W	gb
X210CrW12	iso		
Sweden	2	Czechia	1
2312	ss	19437	csn
2313	ss		
Poland	2	Slovakia	1
NC10	pn	19 437	stn
NC11	pn		
United Kingdom	1	Serbia	1
BD6	bs	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 Z200CW12

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

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026