

MATERIAL NUMBER 1.2008 · CLASS 1.2

19 420

Material no. 1.2008

also listed as 140Cr2

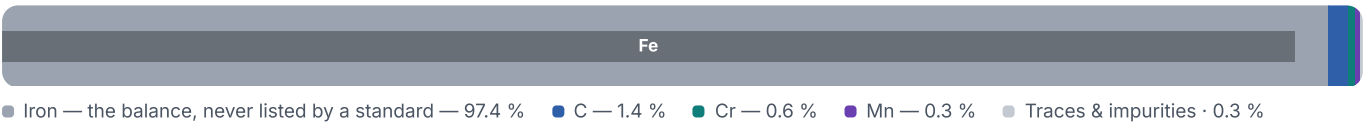
Chemical composition, mechanical and physical property values, and 14 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 14 in 10 regions	PROPERTY VALUES 10 on file
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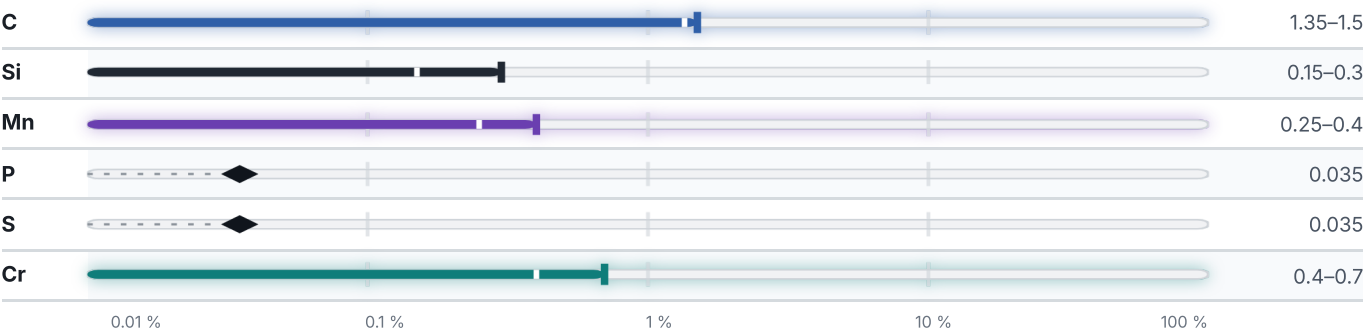
Chemical composition

Mass fraction in %

What this alloy is



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

2 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²
0.1 - 4	930
CONDITION · DIMENSION	HB
(annealing) , GOST 5950-2000	248

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	760	°C
Transformation point Ac3	860	°C
Transformation point Ar1	700	°C

Designations across standards

14 designations · 2 documented as identical

Europe	3	China	1
140Cr2 This grade's own name	din-en	Cr06	gb
140Cr3 This grade's own name	din-en	Czechia	1
140CrV1	din-en	19 420	csn
France	2	Serbia	1
130Cr3	afnor	Č.4143	srps
Y2-140C	afnor	Poland	1
Russia / CIS	2	NC5	pn
13KH	gost	Hungary	1
13X	gost	K6	msz
Japan	1	Austria	1
SKS8	jis	K205	onorm

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 19 420

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

MATERIAL NO.

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ISSUED

Aug 20, 2026