

MATERIAL NUMBER 1.7214 · CLASS 1.7

1.7214

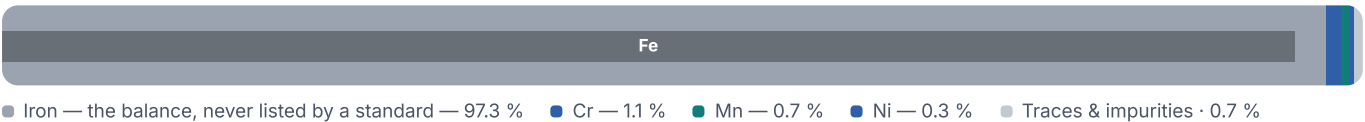
Chemical composition, mechanical and physical property values, and 29 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 29 in 8 regions	PROPERTY VALUES 9 on file
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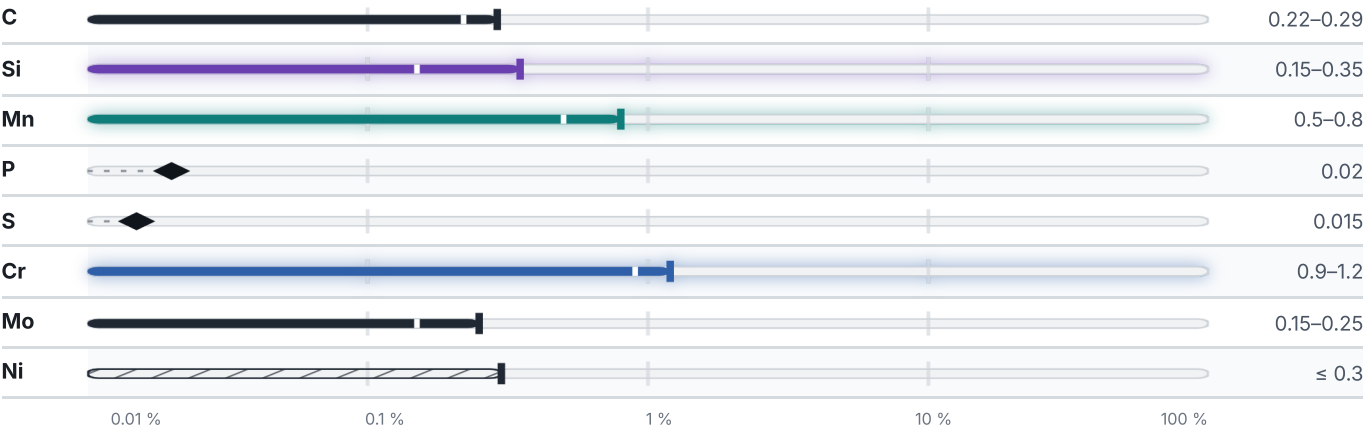
Chemical composition

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

computed from composition · °C

PREDICTED AE3 800 °C	PREDICTED AE1 743 °C	PREDICTED ACM 537 °C	PREDICTED BS 537 °C
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Mechanical properties

8 values across 5 conditions

QUENCHED AND TEMPERED	REH N/mm ²	RM N/mm ²
0.3 – 3	–	990–1400
≤ 60	345–355	–
SOFT ANNEALED	RM N/mm ²	A80 %
0.3 – 3	580	19
TREATED TO IMPROVE SHEARABILITY		HB
Treated to improve shearability		255
SOFT ANNEALED	HB	HV
Soft annealed	212	175
QUENCHED AND TEMPERED		HV
Quenched and tempered		305–435

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

29 designations · 1 documented as identical

United States / Aerospace	10	United States	6
6345	ams	G41300	uns
6346	ams	J24056	uns
6348	ams	4130	aisi-sae
6350	ams	4125	astm
6351	ams	A322	astm
6360	ams	A331	astm
6361	ams		
6370	ams	United Kingdom	4
6371	ams	1717COS110	bs
6374	ams	En20A	bs
		S534	bs
		S535	bs
		France	2
		25CD4	afnor
		30CD4	afnor

Japan		2	Russia / CIS		2
SCM420	jis		30XM		gost
SCM430	jis		ст.30XM		gost
China		2	Europe		1
25CrMo	gb		25CrMo4	This grade's own name	din-en
30CrMo	gb				

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 1.7214

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	1.7214	Aug 20, 2026