

MATERIAL NUMBER 1.7218 · CLASS 1.7

1.7218

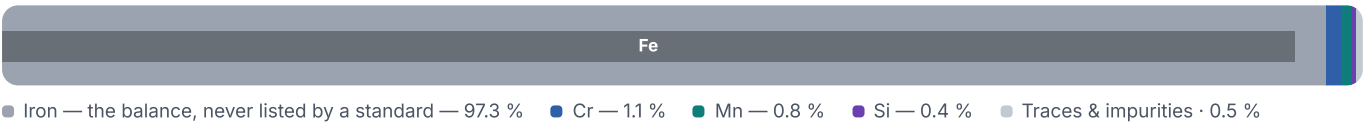
Chemical composition, mechanical and physical property values, and 111 standard designations from 24 regions.

DENSITY 7.75 g/cm³	OTHER DESIGNATIONS 111 in 24 regions	PROPERTY VALUES 15 on file
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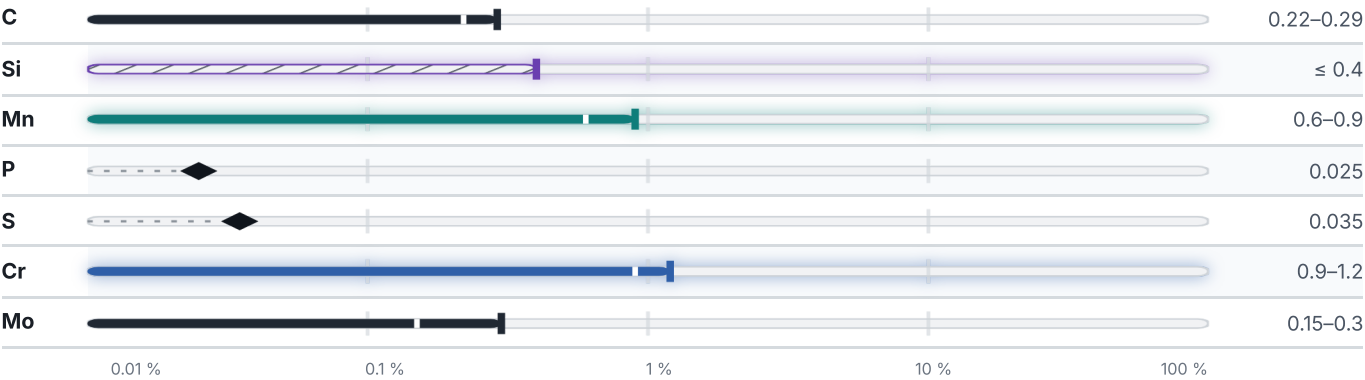
Chemical composition

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.

Mechanical properties

15 values across 4 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
Bar, GOST 4543-71	930	735	11	45	780

ANNEALING 860 - 880°C	RM N/mm ²	RE N/mm ²	A5 %	Z %	
to 100	550	300	18	45	
NORMALIZING 860°C	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
100 - 150	600	350	16	45	400
CONDITION · DIMENSION					HB
(annealing) , GOST 4543-71					229

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.82	208	–	–	–	270
100	7.8	207	12.3	41.9	462	–
200	7.77	204	12.6	40.7	–	334
300	7.74	197	12.9	39.6	–	425
400	7.7	188	13.9	38.4	–	524
500	7.66	175	14.4	–	–	628
600	–	160	14.6	–	–	757
PROPERTY	VALUE		UNIT			
Density	7.75		g/cm ³			
Transformation point Ac1	757		°C			
Transformation point Ac3	807		°C			
Transformation point Ar3	763		°C			
Transformation point Ar1	693		°C			

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Flake sensitivity	weakly predisposed	
Temper brittleness	not predisposed	

Designations across standards

111 designations · 7 documented as identical

United States		13	France		9
G41300		uns	18CrMo4		afnor
H41300	This grade's own name	uns	25 CD 4 (S)		afnor
4118		aisi-sae	25CD4		afnor
4130		aisi-sae	25CD4FF		afnor
4130H	This grade's own name	aisi-sae	25CrMo4		afnor
4130RH	This grade's own name	aisi-sae	34CD4		afnor
G41300		aisi-sae	34CD4FF		afnor
G41350		aisi-sae	34CrMo4		afnor
H41300		aisi-sae	34CrMo4RR		afnor
H41350		aisi-sae			
SAE4130		aisi-sae	Japan		9
4125		astm	SCCrM1		jis
A519 Gr4130		astm	SCM 2		jis
			SCM418		jis
			SCM420		jis
			SCM420H		jis
			SCM425	This grade's own name	jis
			SCM430		jis
			SCM432		jis
			SCM822H		jis
Spain		12	Russia / CIS		9
25CrMo4		une	20ChM		gost
26CrMo4		une	20KHM		gost
30CrMo4-1		une	20XM		gost
55Cr3		une	25ChM		gost
AM25CrMo4		une	30KHM		gost
AM26CrMo4		une	30KHMA		gost
F.1256		une	30XM		gost
F.222		une	30XMA		gost
F.8330		une	ct.30XM		gost
F.8330-AM25CrMo4		une			
F.8372		une	Italy		7
F.8830		une	18CrMo4		uni
United Kingdom		9	25CrMo4		uni
1717CDS110		bs	25CrMo4KB		uni
25CrMo4		bs	30CrMo4		uni
708A25		bs	34CrMo4		uni
708H20		bs	35CrMo4		uni
708M20		bs	KB		uni
708M25		bs			
CFS10		bs	China		5
En20A		bs	25CrMo		gb
S534	This grade's own name	bs	30CrMn		gb
			30CrMo		gb
			ML30CrMo		gb
			ML30CrMoA		gb

Sweden	4	Austria	3
2225	ss	25CrMo5S	onorm
2233	ss	BOHLERV330	onorm
2234	ss	BOHLERV340	onorm
SIS 2225 This grade's own name	ss		
Poland	4	Europe	2
18HGM	pn	1.7218	din-en
20HM	pn	25CrMo4 This grade's own name	din-en
25HM	pn		
L25HM	pn	Czechia	2
South Korea	4	15124	csn
SCCrM1	ks	15130	csn
SCM420	ks		
SCM420TK	ks	Romania	2
SCM430	ks	26MoCr11	stas
		T30CrMo3	stas
International	3	Australia / New Zealand	2
20CrMo4	iso	4130	as-nzs
25CrMo4	iso	4130H	as-nzs
3567	iso		
Hungary	3	Finland	2
25CrMo4	msz	25CrMo4	sfs
CMo 1	msz	G-25CrMo4	sfs
MCrMo	msz		
Bulgaria	3	Slovakia	1
20ChM	bds	15 130	stn
25ChML	bds		
25CrMo4	bds	Latin America	1
		4130	copant
		Serbia	1
		Č.4730	srps
		Belgium	1
		25CrMo4	nbn

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 1.7218

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