

MATERIAL NUMBER 1.7228 · CLASS 1.7

1.7228

Chemical composition, mechanical and physical property values, and 29 standard designations from 12 regions.

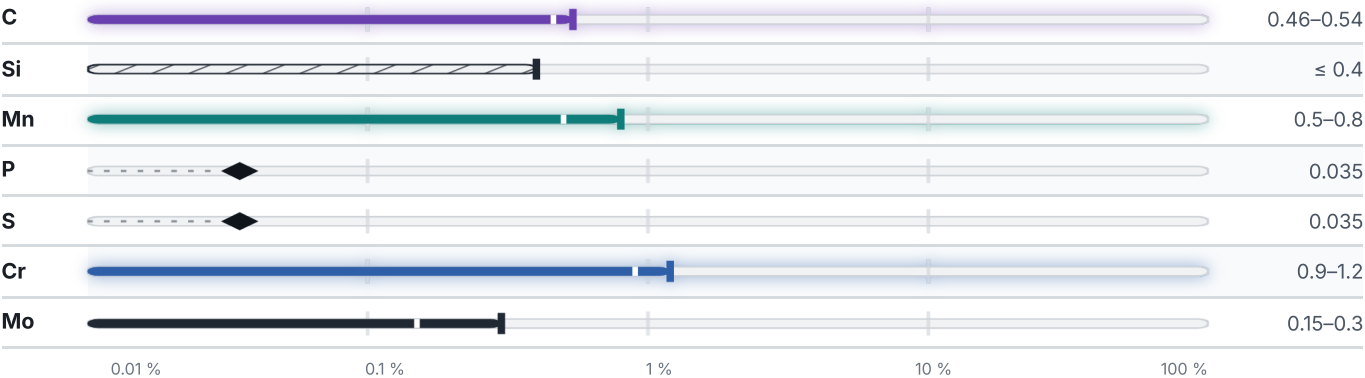
DENSITY 7.69 g/cm³	OTHER DESIGNATIONS 29 in 12 regions	PROPERTY VALUES 8 on file
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Chemical composition

Mass fraction in %



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

6 values across 2 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS	A % · Lo = 5,65 √So
≤ 16	9

QUENCHED AND TEMPERED · ROUND PRODUCTS	A % · Lo = 5,65 √So
16 – 40	10
40 – 100	12
100 – 160	13
160 – 250	13
SOFT ANNEALED	HB
Soft annealed	248

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.69	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

29 designations · 15 documented as identical

United States12		France2	
G41470	This grade's own nameuns	50CD4	afnor
G41500	This grade's own nameuns	50CrMo4	afnor
G86500	This grade's own nameuns	Japan2	
H41470	This grade's own nameuns	SCM 445H	This grade's own namejis
H41500	This grade's own nameuns	SCM445	This grade's own namejis
H86500	This grade's own nameuns	Russia / CIS2	
4147	This grade's own nameaisi-sae	50ChM	gost
4147H	This grade's own nameaisi-sae	50KhM	gost
4150	This grade's own nameaisi-sae	Czechia2	
4150H	This grade's own nameaisi-sae	15 XXX M	csn
8650	This grade's own nameaisi-sae	15 XXX NN	csn
8650H	This grade's own nameaisi-sae	Europe1	
United Kingdom3		50CrMo4	This grade's own namedin-en
708A47	bs		
708M40	bs		
708M50	bs		

International	1	Latin America	1
50CrMo4	iso	8650	copant
China	1	Serbia	1
50CrMo	gb	Č.4733	srps
Poland	1		
50H	pn		

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 1.7228

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	1.7228	Aug 20, 2026