

MATERIAL NUMBER 1.7147 · CLASS 1.7

Č.4321

Material no. 1.7147

also listed as 20MnCr5

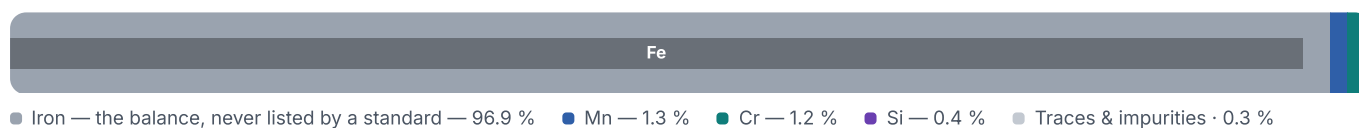
Chemical composition, mechanical and physical property values, and 45 standard designations from 15 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.75 g/cm ³	45 in 15 regions	7 on file

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

5 values across 5 conditions

TREATED TO IMPROVE SHEARABILITY	HB
Treated to improve shearability	255
SOFT ANNEALED	HB
Soft annealed	217
TREATED TO HARDNESS RANGE	HB
Treated to hardness range	170–217
TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE	HB
Treated to ferrite-pearlite structure and hardness range	152–201
NORMALIZED	HB
Normalized	140–201

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.75	g/cm ³

Designations across standards

45 designations · 5 documented as identical

United States		8	Russia / CIS		6
G48200		uns	18ChG		gost
G51150		uns	18ChGT		gost
G51200	This grade's own name	uns	18KHG		gost
H51200	This grade's own name	uns	20ChG		gost
4820		aisi-sae	20X		gost
5120	This grade's own name	aisi-sae	cr.20X		gost
5120H	This grade's own name	aisi-sae	China		4
SAE5120		aisi-sae	20CrH		gb
International		8	20CrMn		gb
16MnCr5		iso	20CrMnTi		gb
16MnCrS5		iso	20MnCr		gb
20Cr4		iso	Poland		4
20Cr4H		iso	16HG		pn
20CrS4		iso	18HGT		pn
20MnCr5		iso	18HGT 20HG		pn
20MnCrS5		iso	20HG		pn
21MnCr5		iso			

Japan	3	Spain	1
SCr420	jis	F.150.D	une
SCr420H	jis		
SMnC420H	jis	Italy	1
		20MnCr5	uni
Europe	2	Czechia	1
20MnCr5	This grade's own name din-en	14221	csn
21MnCr5	din-en		
		Slovakia	1
France	2	14 221	stn
16MC5	afnor		
20MC5	afnor	Serbia	1
		Č.4321	srps
Latin America	2	Finland	1
4820	copant	510	sfs
5120	copant		

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 Č.4321

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	1.7147	Aug 20, 2026