

MATERIAL NUMBER 1.1120 · CLASS 1.1

422709

Material no. 1.1120

also listed as G19Mn5

Chemical composition, mechanical and physical property values, and 29 standard designations from 13 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	29 in 13 regions	11 on file

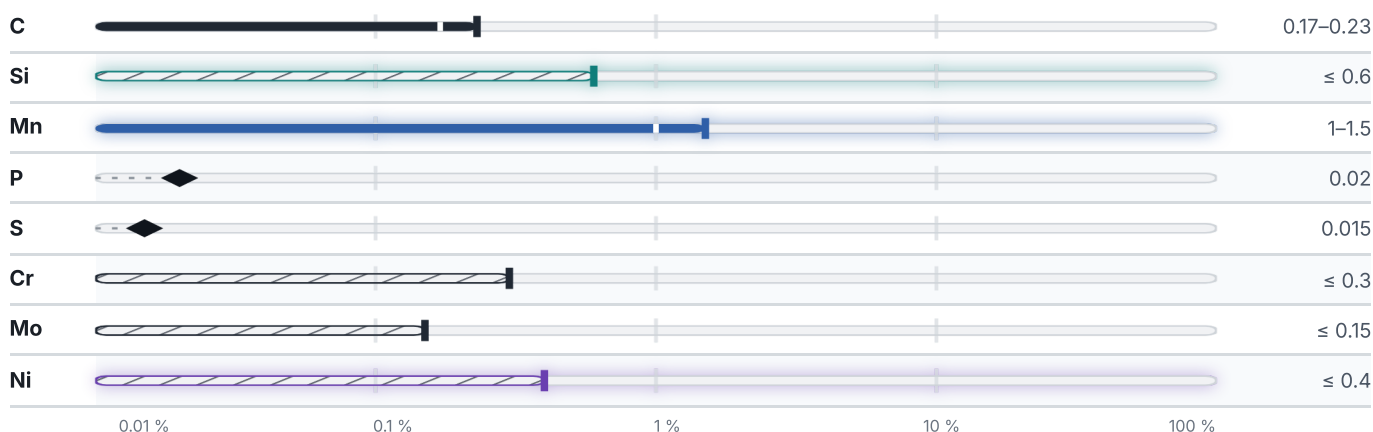
Chemical composition

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

computed from composition · °C

PREDICTED AE3	PREDICTED AE1	PREDICTED ACM	PREDICTED BS
811 °C	716 °C	463 °C	549 °C

Mechanical properties

6 values across 2 conditions

QUENCHING 860°C, WATER, DRAWING 600°C, AIR	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 25	570	340	18	45	700
CONDITION · DIMENSION					HB
(annealing) , GOST 4543-71					207

Physical properties

3 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Flake sensitivity	weakly predisposed	
Temper brittleness	weakly predisposed	

Designations across standards

29 designations · 4 documented as identical

United States		9	Japan	3
J02505	This grade's own name	uns	SCA1	jis
1035		aisi-sae	SCMn1	jis
1037		aisi-sae	SCMn2	jis
A352GrLCC		aisi-sae		
Gr.80-40		aisi-sae	Czechia	2
GrA2Q		aisi-sae	422709	csn
GrWCC		aisi-sae	422714	csn
J02503		aisi-sae		
J02505		aisi-sae	United Kingdom	1
			Gr.A	bs
Russia / CIS		4	France	1
20GL		gost		
20ГЛ		gost	35M5	afnor
35G		gost		
35Г		gost	Italy	1
			G22Mn3	uni
Europe		3	Poland	1
G19Mn5	This grade's own name	din-en	L20G	pn
G20Mn5	This grade's own name	din-en		
GS-20 Mn 5	This grade's own name	din-en	Hungary	1
			Ao20Mn6	msz

Romania	1	Austria	1
T20Mn14	stas	GS21Mn5	onorm
Bulgaria	1		
20L	bds		

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 422709
Quotation, availability, mill certificate or a technical question — directly on the material page.

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DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.1120	Aug 20, 2026