

MATERIAL NUMBER 1.3401 · CLASS 1.3

J91119

Material no. 1.3401

also listed as X120Mn12

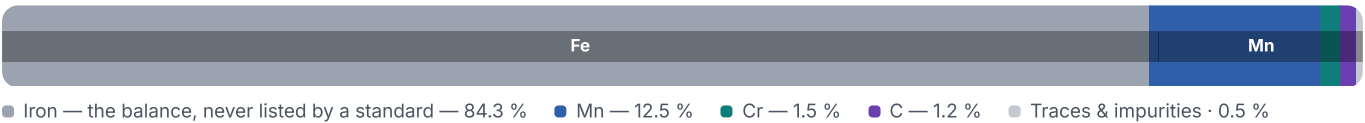
Chemical composition, mechanical and physical property values, and 57 standard designations from 19 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 57 in 19 regions	PROPERTY VALUES 10 on file
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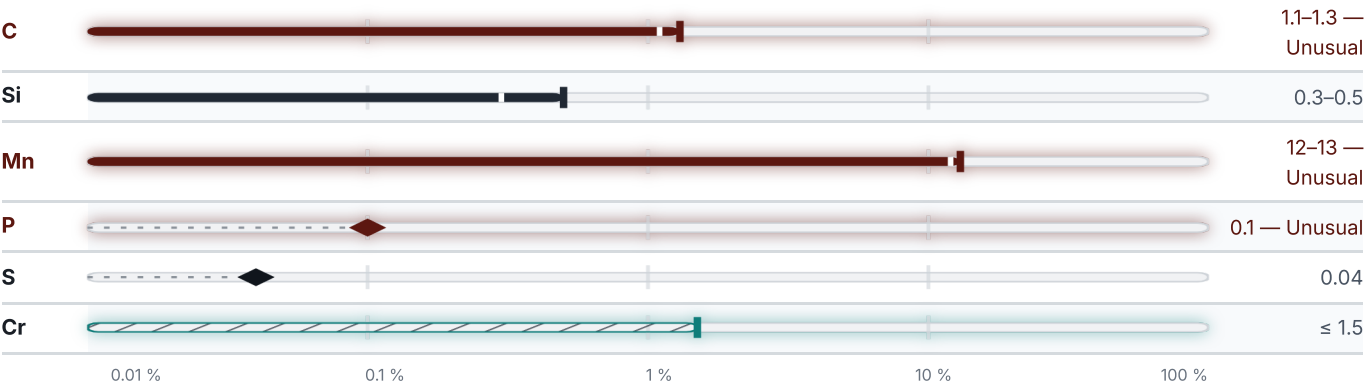
Chemical composition

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, Mo.

Mechanical properties

4 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Casting, GOST 21357-87	800	400	25	35

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

57 designations · 1 documented as identical

United States		9	Japan	5
A128	aisi-sae		SCMnH	jis
A128(A)	aisi-sae		SCMnH1	jis
J91109	aisi-sae		SCMnH11	jis
J91119	aisi-sae		SCMnH2	jis
J91129	aisi-sae		SCMnH3	jis
J91139	aisi-sae			
J91149	aisi-sae		Russia / CIS	5
A128	astm		110G13L	gost
A128(A)	astm		110Г13Л	gost
			120G13	gost
Spain	7		EI256	gost
120	une		G13	gost
AM-X-120Mn12	une			
F.240	une		France	4
F.8251	une		GD 233	afnor
F.82551-AM-X	une		Z120M12	afnor
Mn12	une		Z120M12M	afnor
X120Mn12	une		Z120Mn12	afnor
United Kingdom	6		China	4
BW10	bs		ZGMn13-1	gb
Ma2	bs		ZGMn13-1-4	gb
Ma3	bs		ZGMn13-2	gb
Ma5	bs		ZGMn13-3	gb
MaZ	bs			
Z120M12	bs			

Europe	2	Sweden	1
1.3401	din-en	2183	ss
X120Mn12	This grade's own name din-en	Slovakia	1
Italy	2	17 618	stn
GX120Mn12	uni	Serbia	1
XG120Mn12	uni	Č.3160	srps
Czechia	2	Hungary	1
17618	csn	X120Mn13	msz
422920	csn	Austria	1
Poland	2	BOHLERK700	onorm
C120G13	pn	Finland	1
L120G13	pn	G-X120Mn13	sfs
Romania	2	South Korea	1
T105Mn120	stas	SCMnH1	ks
T130Mn135	stas		

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 J91119

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

[Start an enquiry](#)

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GRADE SEARCH

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ISSUED

Aug 20, 2026