

MATERIAL NUMBER 1.1231 · CLASS 1.1

1.1231

Chemical composition, mechanical and physical property values, and 42 standard designations from 18 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 42 in 18 regions	PROPERTY VALUES 9 on file
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Chemical composition

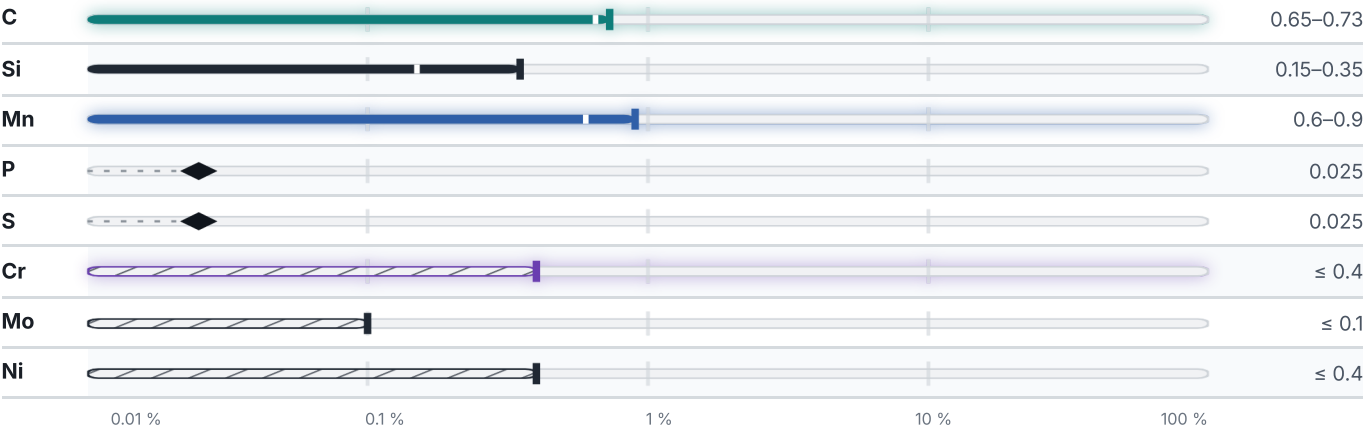
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.4 % ● Mn — 0.8 % ● C — 0.7 % ● Cr — 0.4 % ● Traces & impurities · 0.8 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

7 values across 6 conditions

SOFT ANNEALED	RM N/mm ²	A80 %
0.3 – 3	640	16
COLD ROLLED	RM N/mm ²	
0.3 – 3		1140
QUENCHED AND TEMPERED	RM N/mm ²	
0.3 – 3		1200–1900
SOFT ANNEALED		HV
Soft annealed		200
COLD ROLLED		HV
Cold rolled		315
QUENCHED AND TEMPERED		HV
Quenched and tempered		370–580

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

42 designations · 4 documented as identical

United States	9	Russia / CIS	4
G10700 This grade's own name	uns	65	gost
1065	aisi-sae	68GA	gost
1069	aisi-sae	68ГA	gost
1070 This grade's own name	aisi-sae	70	gost
1566	aisi-sae		
G10690	aisi-sae	United Kingdom	3
G10700	aisi-sae	060A67	bs
G15660	aisi-sae	070A72	bs
J403	aisi-sae	CS70	bs
France	4	Japan	3
C68RR	afnor	S 70 C	jis
FMR70	afnor	S65CM	jis
FMR72	afnor	S70C-CSP	jis
XC68	afnor		

Europe	2	International	1
C67S This grade's own name	din-en	CS65	iso
Ck 67 This grade's own name	din-en		
China	2	Italy	1
65	gb	C70	uni
70	gb		
Czechia	2	Sweden	1
12 061	csn	1770	ss
12071	csn		
Poland	2	Brazil	1
D70	pn	1070	abnt
gat. 65	pn		
Australia / New Zealand	2	Latin America	1
1070	as-nzs	1070	copant
K1070S	as-nzs		
Romania	2	Slovakia	1
OLC66S	stas	12061	stn
OLC70A	stas		
		Bulgaria	1
		70	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 1.1231

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Sep 8, 2026