

MATERIAL NUMBER 1.1223 · CLASS 1.1

1.1223

Chemical composition, mechanical and physical property values, and 6 standard designations from 4 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 6 in 4 regions	PROPERTY VALUES 9 on file
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Chemical composition

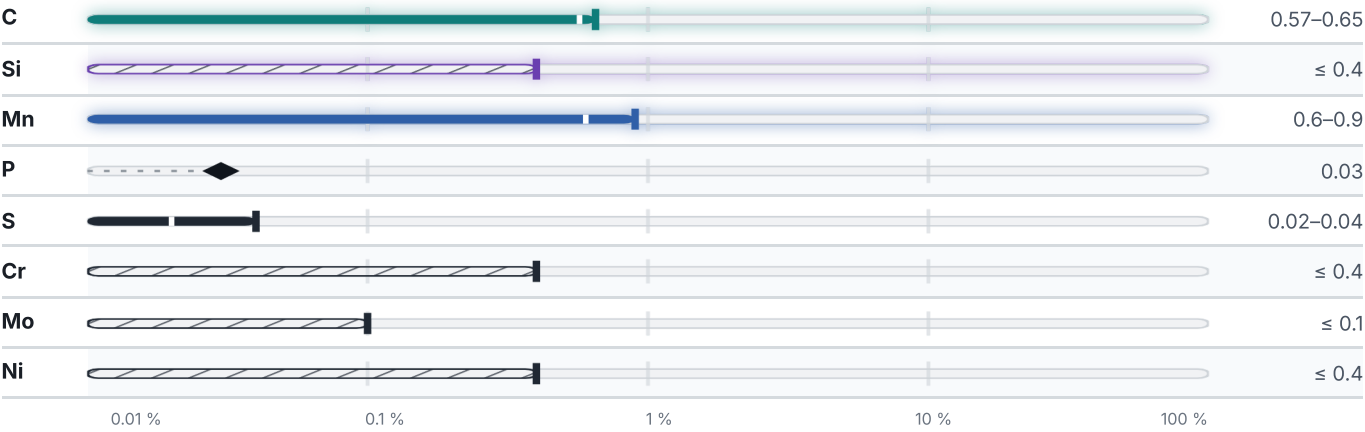
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.3 % ● Mn — 0.8 % ● C — 0.6 % ● Si — 0.4 % ● Traces & impurities · 1 %

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

15 values across 5 conditions

NORMALIZED	RM N/mm ²	A %
≤ 16	710	10
16 – 100	670	11
100 – 250	650	11
COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	800–1150	5
10 – 16	780–1130	5
16 – 40	730–1100	6
TREATED TO IMPROVE SHEARABILITY	HB	
Treated to improve shearability	255	
SOFT ANNEALED	HB	
Soft annealed	241	
AS ROLLED AND TURNED	HB	
As rolled and turned	198–278	

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

6 designations · 4 documented as identical

Europe	2	International	1
C60R This grade's own name	din-en	C60M2	iso
Cm 60 This grade's own name	din-en		
United States	2	Italy	1
G10600 This grade's own name	uns	C60	uni
1060 This grade's own name	aisi-sae		

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 1.1223
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026