

MATERIAL NUMBER 1.4023 · CLASS 1.4

1.4023

Chemical composition, mechanical and physical property values, and 21 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 21 in 5 regions	PROPERTY VALUES 9 on file
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Chemical composition

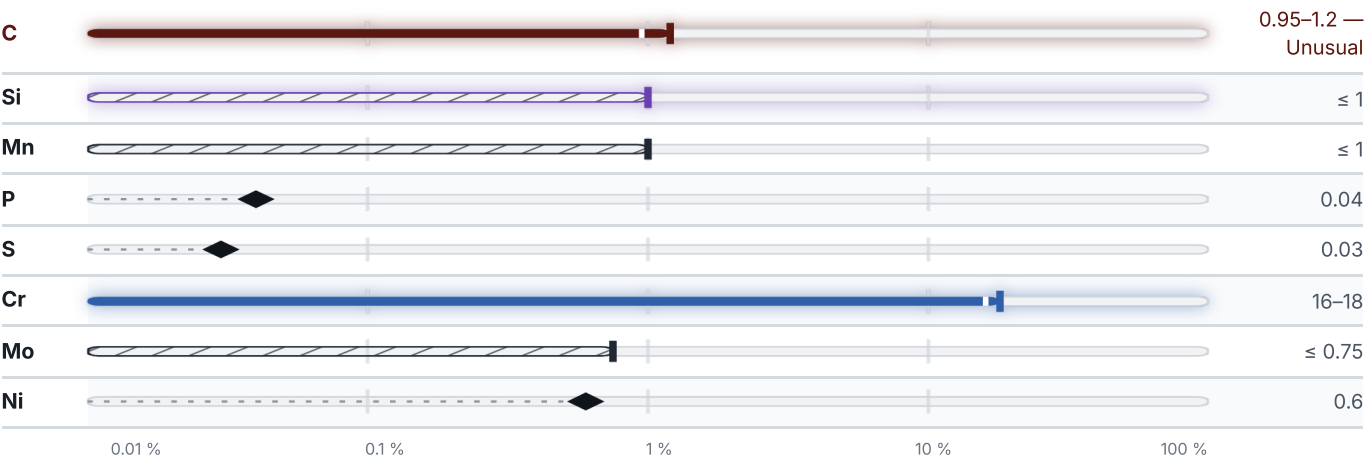
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 78.5 % ● Cr — 17 % ● C — 1.1 % ● Si — 1 % ● Traces & impurities · 2.4 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

21 designations · 1 documented as identical

United States	13	United States / Aerospace	5
S44004	uns	5618	ams
440C	aisi-sae	5630	ams
51440C	aisi-sae	5880	ams
A 480	astm	5899	ams
A276	astm	7445	ams
A314	astm		
A473	astm	Europe	1
A493	astm	X110Cr17 This grade's own name	din-en
A580	astm		
F116	astm	Japan	1
F1613	astm	SUS 440C	jis
F2215	astm		
F899	astm	China	1
		9Cr18	gb

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 1.4023

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026