

MATERIAL NUMBER 1.2003 · CLASS 1.2

1.2003

Chemical composition, mechanical and physical property values, and 11 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 11 in 10 regions	PROPERTY VALUES 7 on file
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Chemical composition

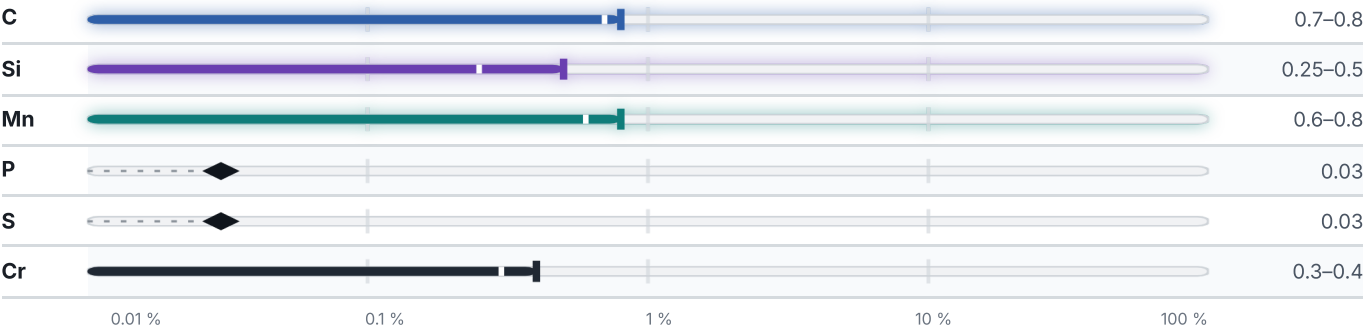
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 97.8 % C — 0.8 % Mn — 0.7 % Si — 0.4 % Traces & impurities · 0.4 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

11 designations · 1 documented as identical

United Kingdom	2	Russia / CIS	1
75Cr1	bs	75	gost
CS80	bs		
Europe	1	Czechia	1
75Cr1 This grade's own name	din-en	12081	csn
United States	1	Slovakia	1
1075	aisi-sae	12081	stn
France	1	Poland	1
XC 75	afnor	75	pn
Japan	1	Romania	1
S 75 CM	jis	OLC 75A	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 1.2003

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.2003	Aug 20, 2026