

MATERIAL NUMBER 1.4003 · CLASS 1.4

1.4003

Chemical composition, mechanical and physical property values, and 15 standard designations from 6 regions.

DENSITY 7.7 g/cm³	OTHER DESIGNATIONS 15 in 6 regions	PROPERTY VALUES 9 on file
-----------------------------	--	-------------------------------------

Chemical composition

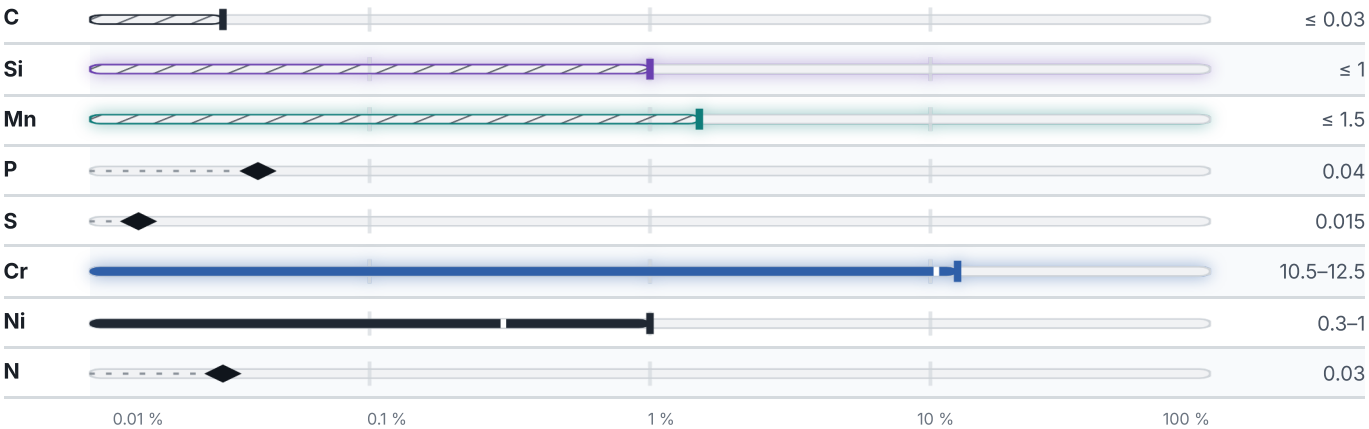
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 85.2 % ● Cr — 11.5 % ● Mn — 1.5 % ● Si — 1 % ● 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

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

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm³

Designations across standards

15 designations · 5 documented as identical

United States		6	France		2
S40977	This grade's own name	uns	Z38C13M		afnor
S41003	This grade's own name	uns	Z8CA12		afnor
S41050	This grade's own name	uns			
405		aisi-sae	Japan		2
410L		aisi-sae	G4303		jis
S40977		aisi-sae	SUS 410L		jis
Europe		3	United Kingdom		1
1.4003		din-en	405S17		bs
X2Cr11	This grade's own name	din-en			
X2CrNi12	This grade's own name	din-en	Italy		1
			X6CrAl13		uni

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 1.4003

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	1.4003	Aug 20, 2026