

MATERIAL NUMBER 1.4004 · CLASS 1.4

1.4004

Chemical composition, mechanical and physical property values, and 17 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 17 in 4 regions	PROPERTY VALUES 8 on file
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Chemical composition

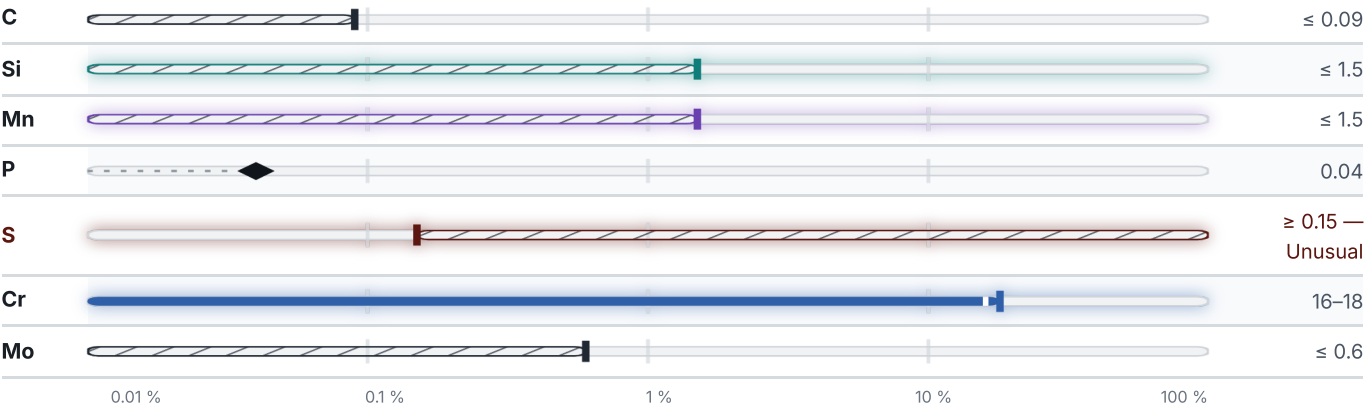
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 79.1 % ● Cr — 17 % ● Si — 1.5 % ● Mn — 1.5 % ● Traces & impurities · 0.9 %

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.

Mechanical properties

4 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %
Bars/Rods	450	205	22	50

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

17 designations · 1 documented as identical

United States	14	Europe	1
S43020	uns	X7CrS17	This grade's own name din-en
430F	aisi-sae		
51430F	aisi-sae	Japan	1
A314	astm	SUS430F	jis
A473	astm		
A581	astm	China	1
A582	astm	Y1Cr17	gb
A895	astm		
F2281	astm		
F593	astm		
F594	astm		
F738	astm		
F836	astm		
F899	astm		

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 1.4004

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