

MATERIAL NUMBER 1.3544 · CLASS 1.3

1.3544

Chemical composition, mechanical and physical property values, and 20 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 20 in 4 regions	PROPERTY VALUES 9 on file
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Chemical composition

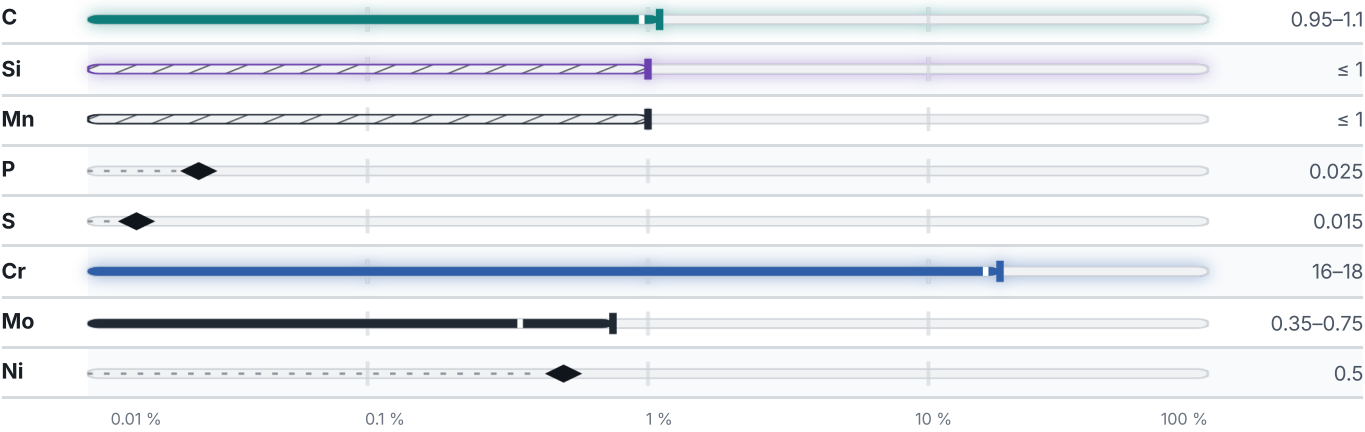
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 78.9 % ● Cr — 17 % ● C — 1 % ● Si — 1 % ● Traces & impurities · 2.1 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

20 designations · 0 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	Japan		1
A493		astm	SUS 440C		jis
A580		astm			
F116		astm	China		1
F1613		astm	9Cr18		gb
F2215		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 1.3544

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