

MATERIAL NUMBER 1.4504 · CLASS 1.4

1.4504

Chemical composition, mechanical and physical property values, and 17 standard designations from 3 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 17 in 3 regions	PROPERTY VALUES 9 on file
------------------------------	--	-------------------------------------

Chemical composition

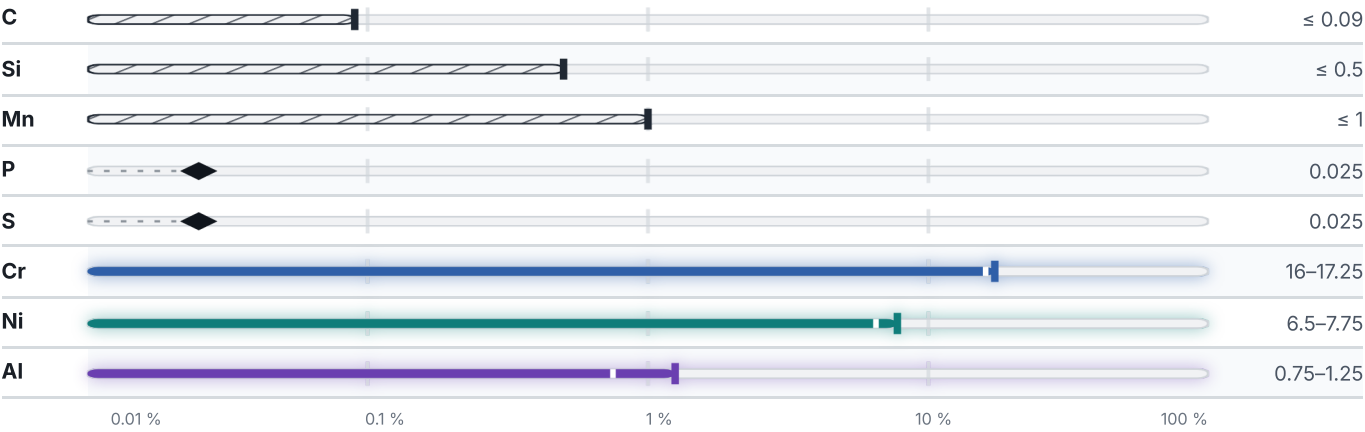
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 73.6 % ● Cr — 16.6 % ● Ni — 7.1 % ● Mn — 1 % ● Traces & impurities · 1.6 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

17 designations · 3 documented as identical

United States		10	United States / Aerospace		6
S17700	This grade's own name	uns	5528		ams
S17780	This grade's own name	uns	5529		ams
17-7PH		aisi-sae	5568		ams
631	This grade's own name	aisi-sae	5644		ams
A 313		astm	5678		ams
A 564		astm	5824		ams
A 564 Type 631		astm			
A 579		astm	Europe		1
A 693		astm	1.4504		din-en
A 705		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 1.4504

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

MATERIAL NO.

1.4504

ISSUED

Aug 20, 2026