

MATERIAL NUMBER 1.0506 · CLASS 1.0

1.0506

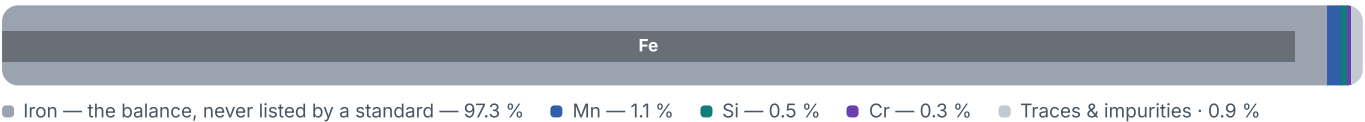
Chemical composition, mechanical and physical property values, and 7 standard designations from 2 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 7 in 2 regions	PROPERTY VALUES 13 on file
--	---	--------------------------------------

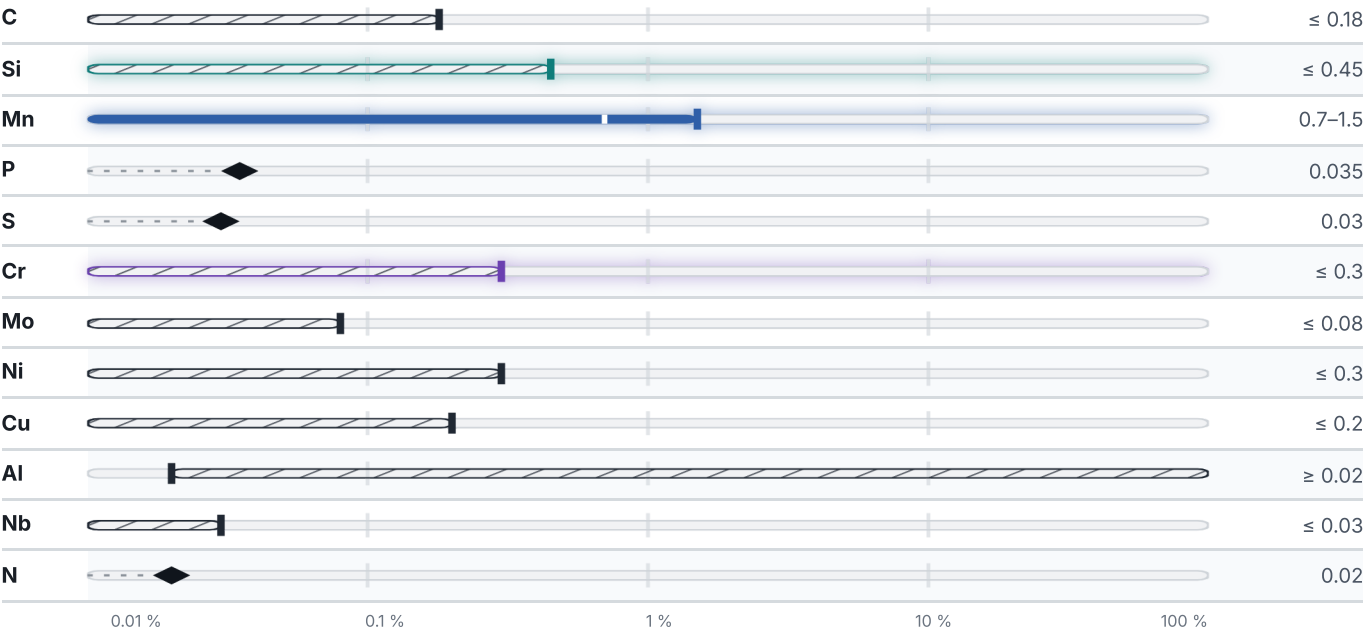
Chemical composition

Mass fraction in %

What this alloy is



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

computed from composition · °C

PREDICTED AE3 815 °C	PREDICTED AE1 715 °C	PREDICTED ACM 420 °C	PREDICTED BS 556 °C
-------------------------	-------------------------	-------------------------	------------------------

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

7 designations · 6 documented as identical

United States5		Europe2	
K01802	This grade's own nameuns	P315NH	This grade's own namedin-en
K02203	This grade's own nameuns	WStE 315	This grade's own namedin-en
K02403	This grade's own nameuns		
K02404	This grade's own nameuns		
K02601	uns		

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 1.0506

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	1.0506	Aug 20, 2026