

MATERIAL NUMBER 1.8917 · CLASS 1.8

S500NL

Material no. 1.8917

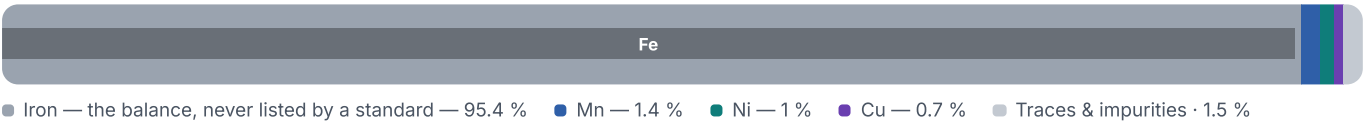
Chemical composition, mechanical and physical property values, and 20 standard designations from 2 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	20 in 2 regions	15 on file

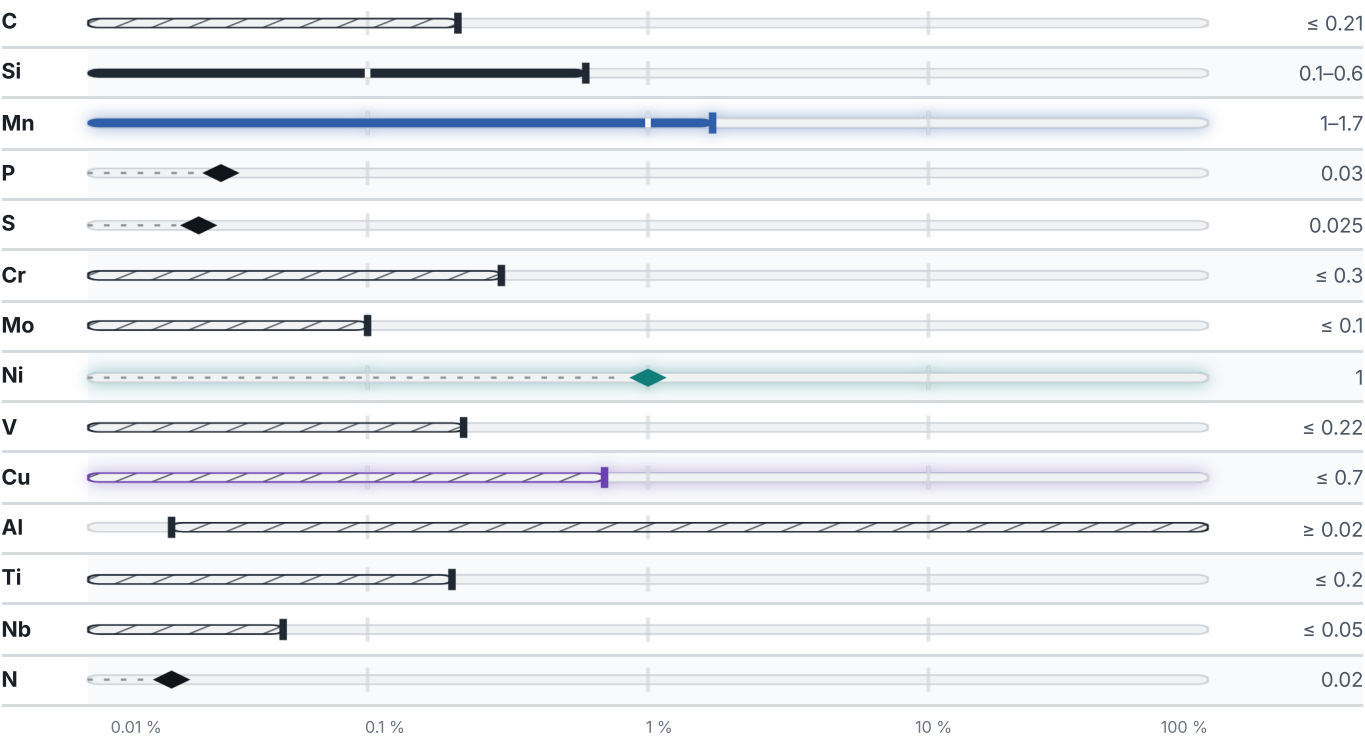
Chemical composition

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 802 °C	PREDICTED AE1 705 °C	PREDICTED ACM 445 °C	PREDICTED BS 536 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

20 designations · 8 documented as identical

United States		18	Europe		2
K02001		uns	S500NL	This grade's own name	din-en
K02204		uns	TStE 500	This grade's own name	din-en
K11511		uns			
K11523	This grade's own name	uns			
K11576		uns			
K11625		uns			
K11630		uns			
K11646		uns			
K11662	This grade's own name	uns			
K11682	This grade's own name	uns			
K11683		uns			
K11804	This grade's own name	uns			
K11847	This grade's own name	uns			
K11856		uns			
K11872	This grade's own name	uns			
K12524		uns			
K21604		uns			
K21650		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 S500NL

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	1.8917	Aug 20, 2026