

MATERIAL NUMBER 1.8931 · CLASS 1.8

A514F

Material no. 1.8931

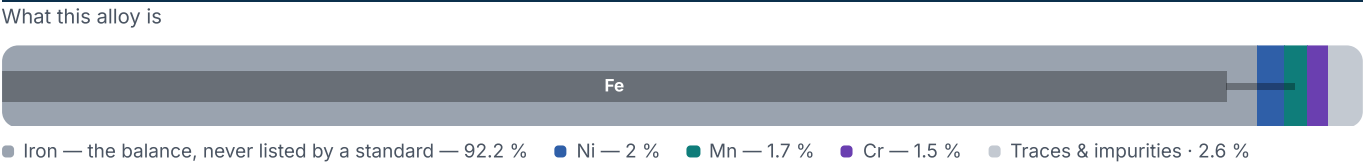
also listed as S690Q

Chemical composition, mechanical and physical property values, and 5 standard designations from 4 regions.

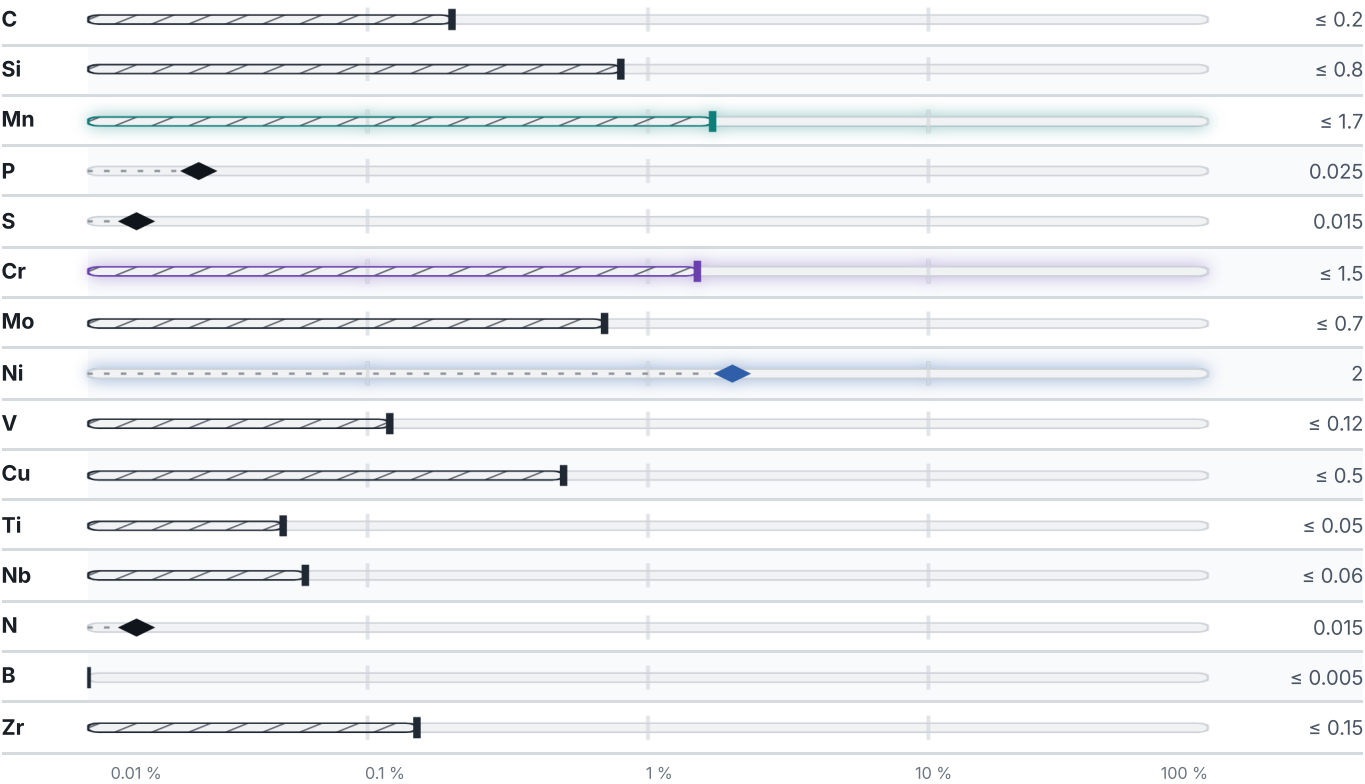
DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 5 in 4 regions	PROPERTY VALUES 16 on file
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Chemical composition

Mass fraction in %



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 792 °C	PREDICTED AE1 723 °C	PREDICTED ACM 475 °C	PREDICTED BS 456 °C
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Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
3 – 50	690	770–940
50 – 100	650	760–930
100 – 150	630	710–900

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 2 documented as identical

Europe	2	France	1
S690Q This grade's own name	din-en	E690TR	afnor
StE 690 V This grade's own name	din-en	Sweden	1
United States	1	2624	ss
A514F	aisi-sae		

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 A514F

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

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ISSUED
Aug 20, 2026