

MATERIAL NUMBER 1.8915 · CLASS 1.8

A590AP

Material no. 1.8915

also listed as P460NL1

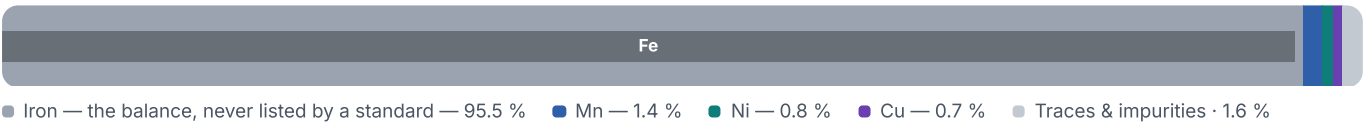
Chemical composition, mechanical and physical property values, and 5 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 5 in 3 regions	PROPERTY VALUES 15 on file
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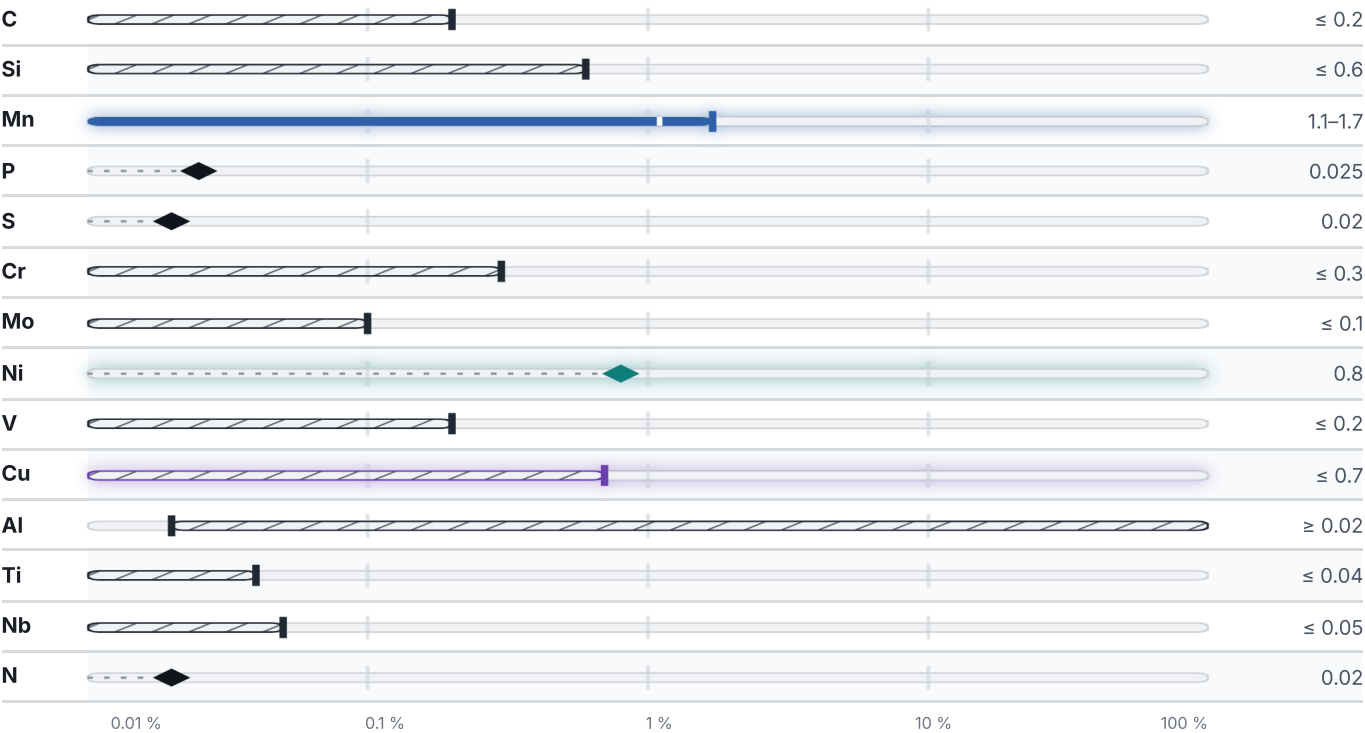
Chemical composition

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 807 °C	PREDICTED AE1 708 °C	PREDICTED ACM 438 °C	PREDICTED BS 540 °C
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Mechanical properties

7 values across 1 conditions

NORMALIZED	REH N/mm²	RM N/mm²
≤ 16	460	560–730
16 – 60	–	570–720
16 – 40	445	–
40 – 60	430	–
60 – 100	400	540–710

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 2 documented as identical

Europe	2	United States	2
P460NL1 This grade's own name	din-en	K02900	uns
TStE 460 This grade's own name	din-en	K12202	uns
		France	1
		A590AP	afnor

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 A590AP

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	1.8915	Aug 20, 2026