

MATERIAL NUMBER 1.8904 · CLASS 1.8

1.8904

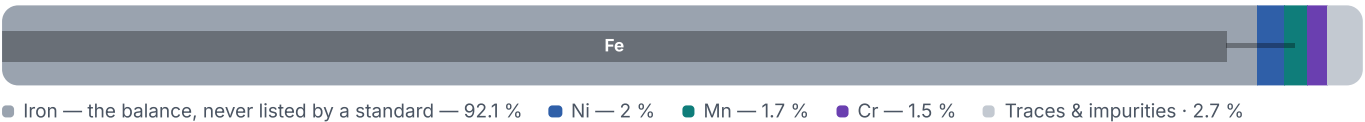
Chemical composition, mechanical and physical property values, and 4 standard designations from 2 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 4 in 2 regions	PROPERTY VALUES 17 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 792 °C	PREDICTED AE1 723 °C	PREDICTED ACM 475 °C	PREDICTED BS 456 °C
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Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²
3 – 100	–	640–820
3 – 50	550	–
50 – 100	530	–
100 – 150	490	590–770

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

4 designations · 2 documented as identical

Europe	3	France	1
FeE550V	din-en	E550TR	afnor
S550Q This grade's own name	din-en		
StE 550 V This grade's own name	din-en		

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 1.8904

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

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ISSUED

Aug 20, 2026