

MATERIAL NUMBER 1.8819 · CLASS 1.8

1.8819

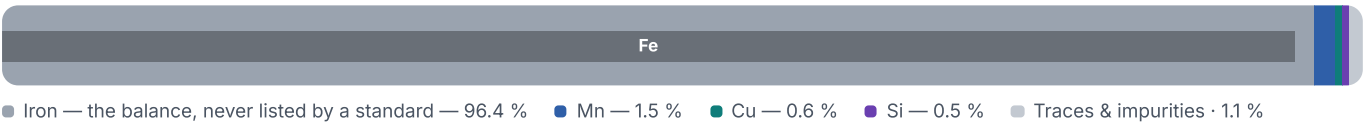
Chemical composition, mechanical and physical property values, and 5 standard designations from 2 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 5 in 2 regions	PROPERTY VALUES 15 on file
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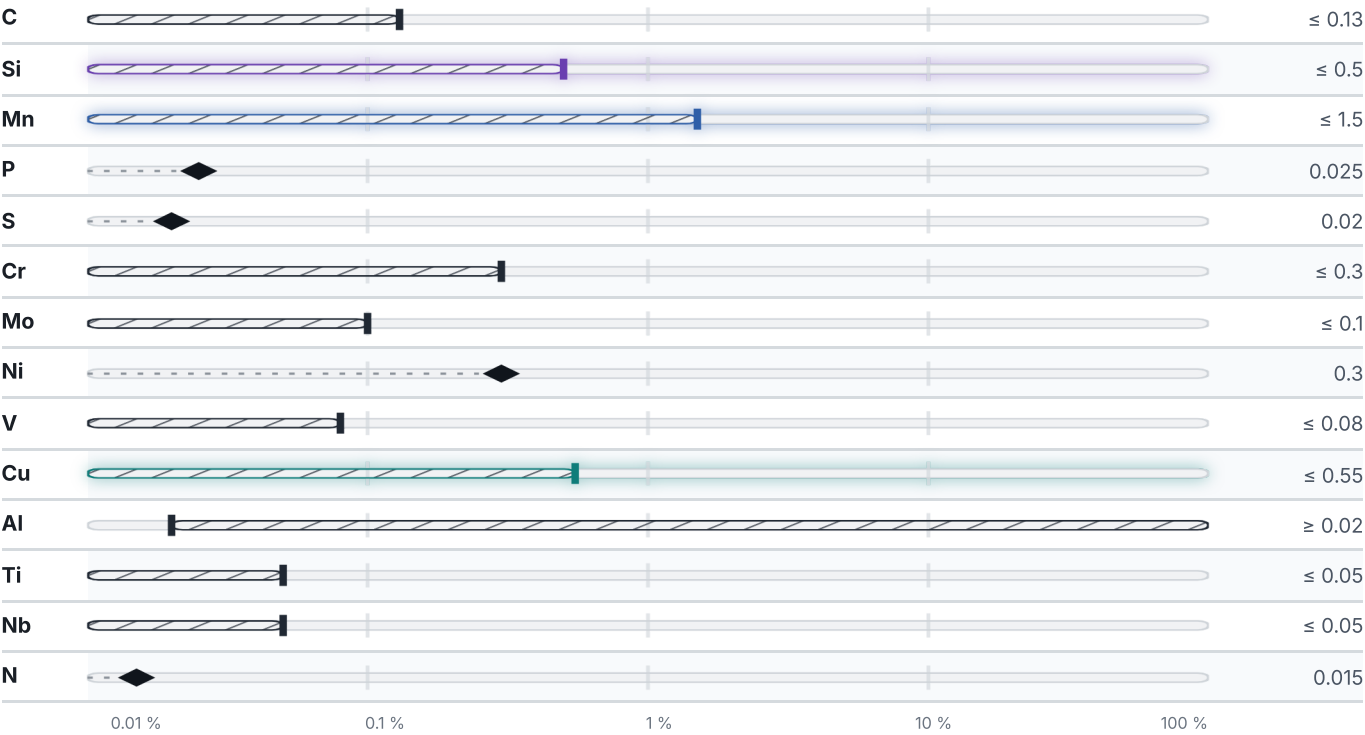
Chemical composition

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 827 °C	PREDICTED AE1 716 °C	PREDICTED ACM 378 °C	PREDICTED BS 558 °C
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Mechanical properties

11 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
≤ 16	275	–
16 – 40	265	–
≤ 40	–	370–530
40 – 63	255	360–520
63 – 80	245	350–510
80 – 100	245	350–510
100 – 120	240	350–510

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 1 documented as identical

Europe	4	Italy	1
FeE275KTTM	din-en	FeE275KTTM	uni
S275ML This grade's own name	din-en		
TStE275TM	din-en		
TStE285TM	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 1.8819

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