

MATERIAL NUMBER 1.8935 · CLASS 1.8

1.8935

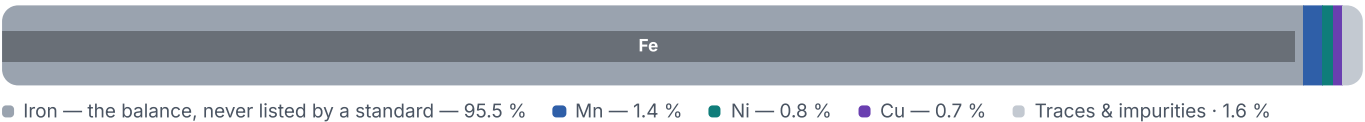
Chemical composition, mechanical and physical property values, and 7 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 7 in 4 regions	PROPERTY VALUES 15 on file
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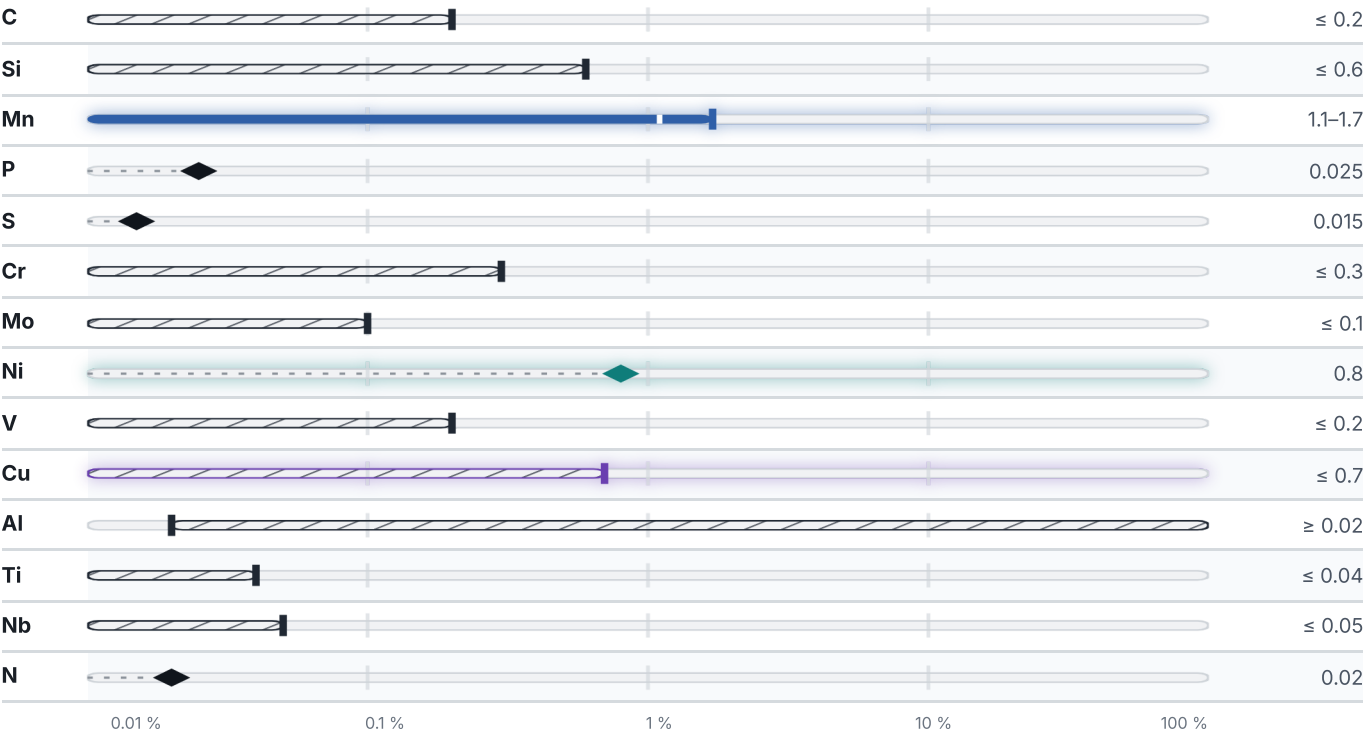
Chemical composition

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

10 values across 2 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²	
≤ 16	460	560–730	
16 – 60	–	570–720	
16 – 40	445	–	
40 – 60	430	–	
60 – 100	400	540–710	
NORMALIZING	RM N/mm ²	RE N/mm ²	A5 %
Ø 80	500	320	19

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

7 designations · 2 documented as identical

Europe	2	Russia / CIS	2
P460NH This grade's own name	din-en	18G2	gost
WStE 460 This grade's own name	din-en	18Г2	gost
United States	2	France	1
K02900	uns	E460FP	afnor
K12202	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 1.8935

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026