

MATERIAL NUMBER 1.8956 · CLASS 1.8

1.8956

Chemical composition, mechanical and physical property values, and 2 standard designations from 1 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 2 in 1 regions	PROPERTY VALUES 15 on file
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Chemical composition

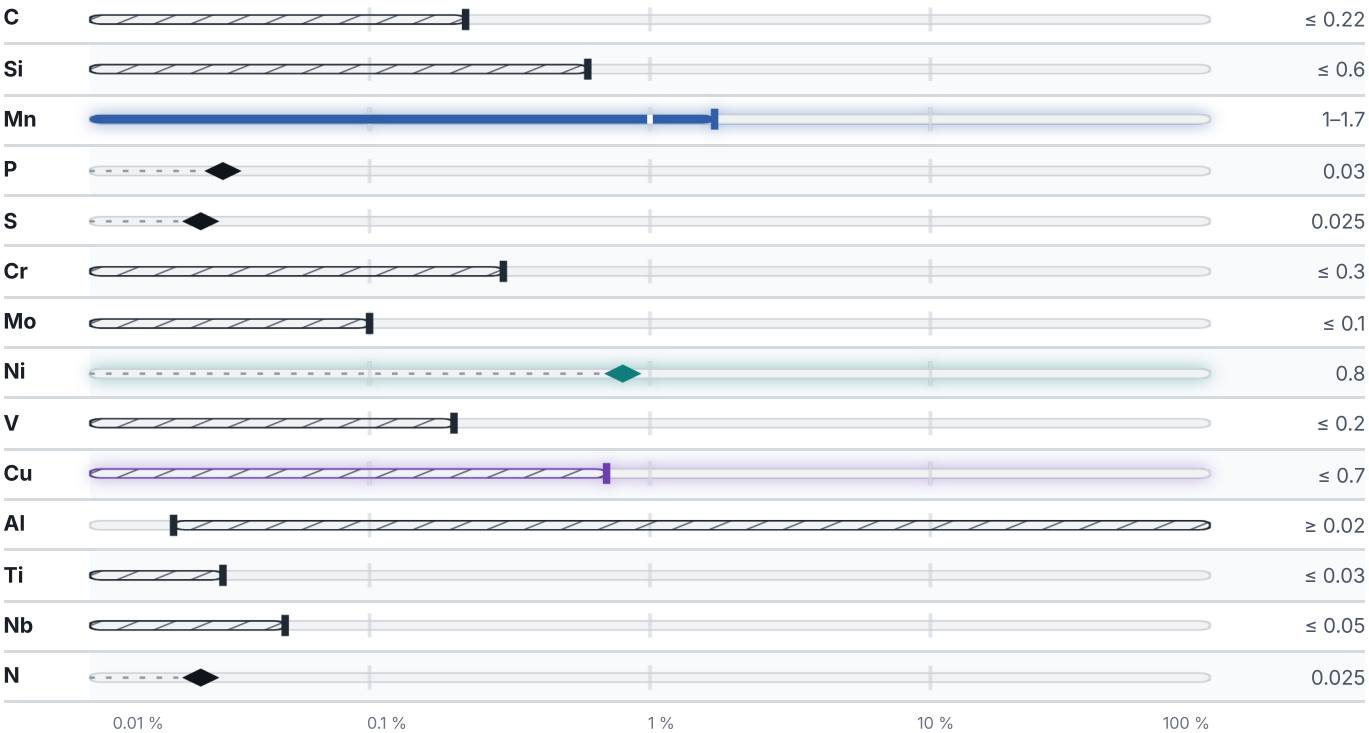
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.6 % ● Mn — 1.4 % ● Ni — 0.8 % ● Cu — 0.7 % ● Traces & impurities · 1.6 %

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 803 °C	PREDICTED AE1 708 °C	PREDICTED ACM 454 °C	PREDICTED BS 538 °C
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Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²	A %
≤ 16	460	—	—
16 – 40	440	—	—
40 – 65	430	—	—
≤ 65	—	540–720	—
≤ 65	—	—	17
≤ 65	—	—	15

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

2 designations · 2 documented as identical

Europe	2
S460NLH This grade's own name	din-en
TStE 460 N 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 1.8956

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