

MATERIAL NUMBER 1.8906 · CLASS 1.8

1.8906

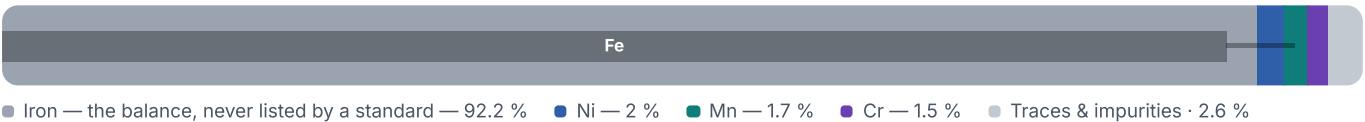
Chemical composition, mechanical and physical property values, and 8 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 8 in 4 regions	PROPERTY VALUES 17 on file
--	---	--------------------------------------

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
-------------------------	-------------------------	-------------------------	------------------------

Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
3 – 100	–	550–720
3 – 50	460	–
50 – 100	440	–
100 – 150	400	500–670

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

8 designations · 2 documented as identical

Europe	3	United Kingdom	1
FeE460VKT	din-en	55F	bs
S460QL This grade's own name	din-en		
TStE 460 V This grade's own name	din-en	International	1
		E460	iso
France	3		
E460T	afnor		
E460TFP	afnor		
S460T	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 1.8906

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	1.8906	Aug 20, 2026