

MATERIAL NUMBER 1.8928 · CLASS 1.8

A709-100

Material no. 1.8928

also listed as S690QL

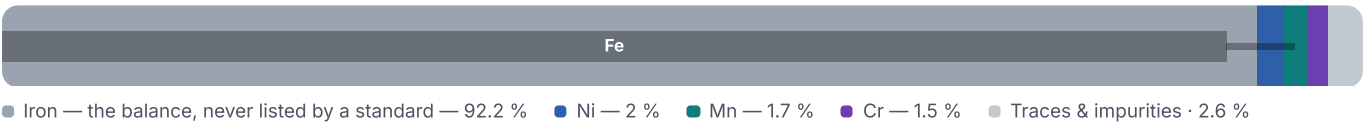
Chemical composition, mechanical and physical property values, and 17 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 17 in 7 regions	PROPERTY VALUES 17 on file
--	--	--------------------------------------

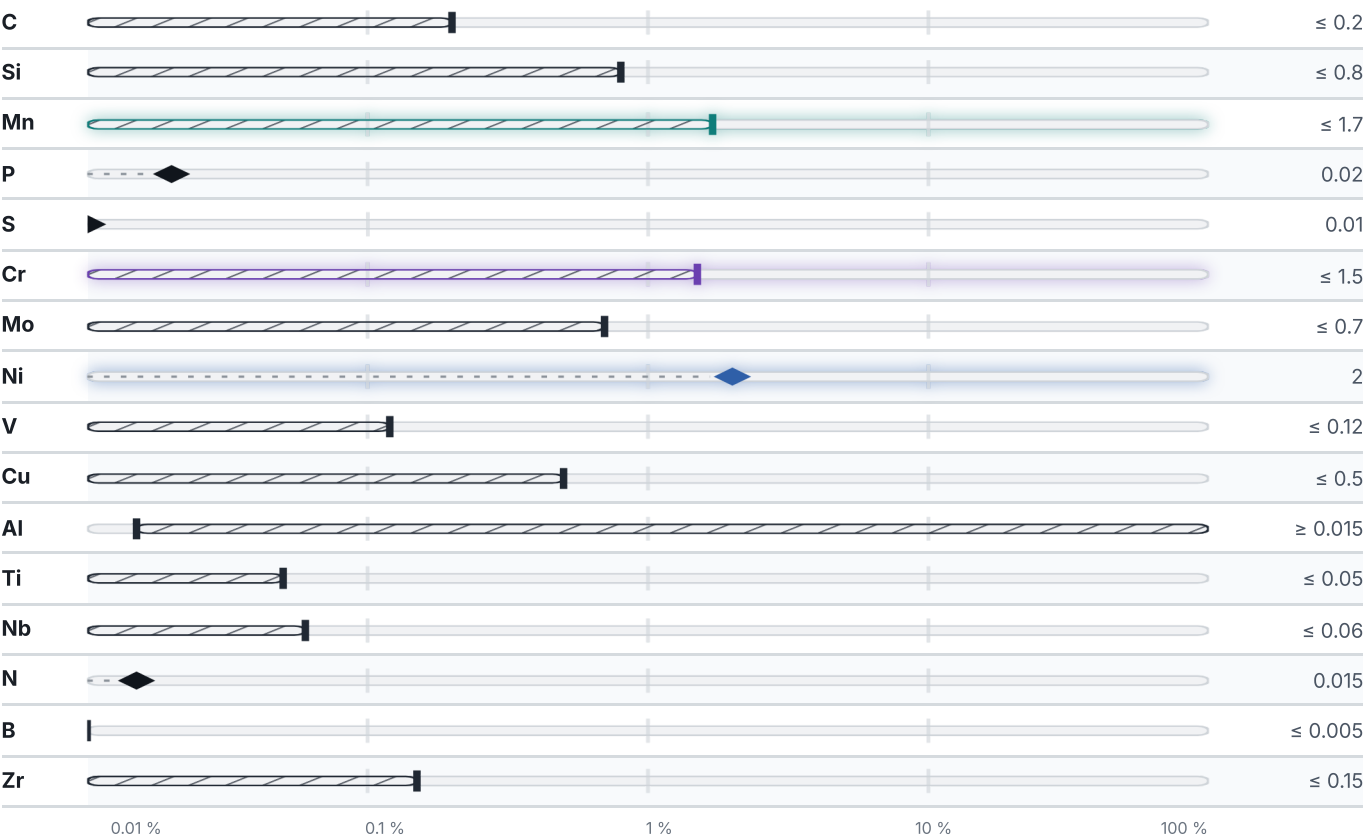
Chemical composition

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

6 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
3 – 50	690	770–940
50 – 100	650	760–930
100 – 150	630	710–900

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

17 designations · 2 documented as identical

United States7		France3	
K11576	uns	E690T	afnor
K11630	uns	E690TFP	afnor
K11646	uns	S690T	afnor
K11856	uns	International1	
K21604	uns		
K21650	uns	E690	iso
A709-100	aisi-sae	Sweden1	
Europe3		2625	ss
FeE690VKT	din-en	Czechia1	
S690QL	din-en	16224csn	
TStE 690 V	din-en	Slovakia1	
		16 224	stn

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 A709-100

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](#)

MATERIAL NO.

1.8928

ISSUED

Aug 20, 2026