

MATERIAL NUMBER 1.8974 · CLASS 1.8

S700MC

Material no. 1.8974

also listed as QStE 690 TM

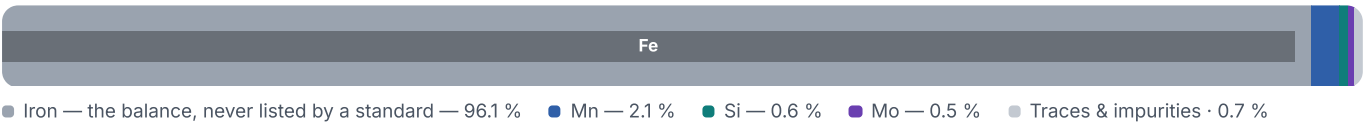
Chemical composition, mechanical and physical property values, and 6 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 6 in 4 regions	PROPERTY VALUES 12 on file
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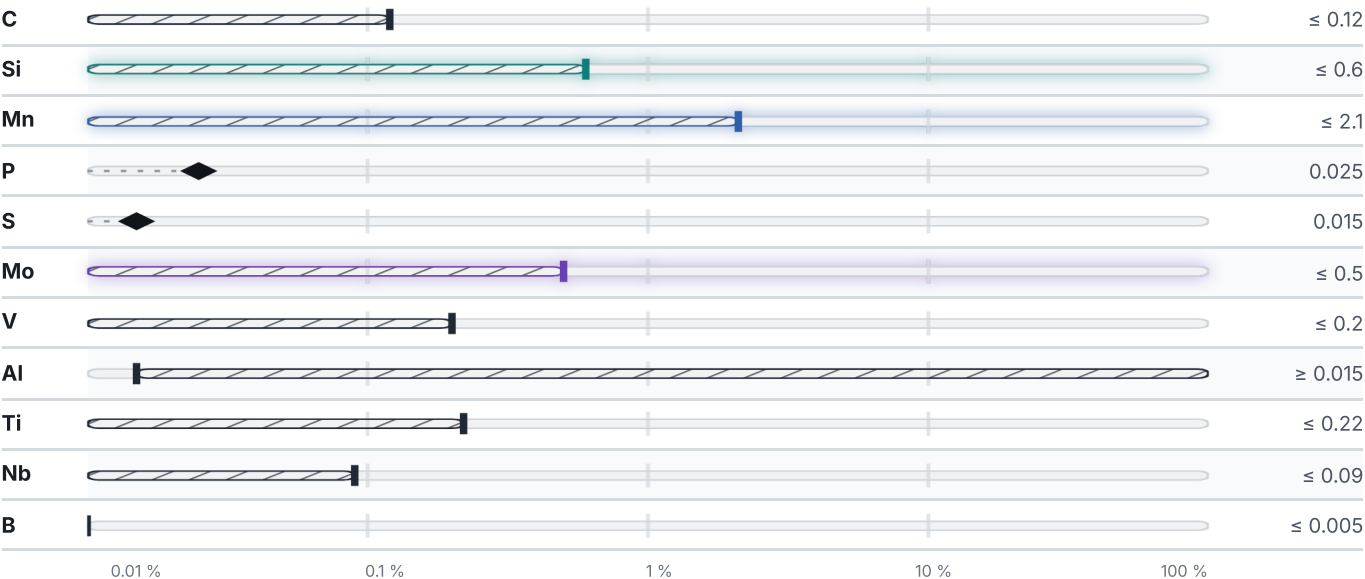
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Cr.

Mechanical properties

2 values across 1 conditions

CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So
≤ 3	10	–
≥ 3	–	12

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

6 designations · 2 documented as identical

Europe	3	United Kingdom	1
1.0966	din-en	75F70	bs
QStE 690 TM	din-en		
S700MC	din-en	France	1
		E690D	afnor
United States	1		
A514	aisi-sae		

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 S700MC

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	1.8974	Aug 20, 2026