

MATERIAL NUMBER 1.8965 · CLASS 1.8

SMA50CP

Material no. 1.8965

also listed as S355J2G2W

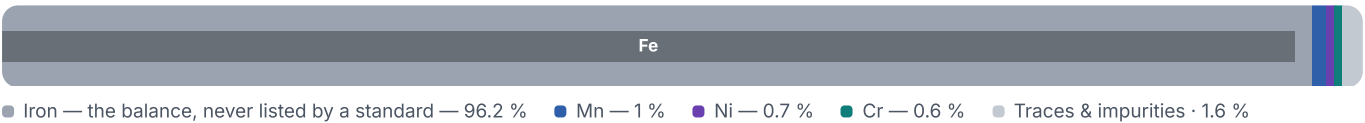
Chemical composition, mechanical and physical property values, and 8 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 8 in 3 regions	PROPERTY VALUES 11 on file
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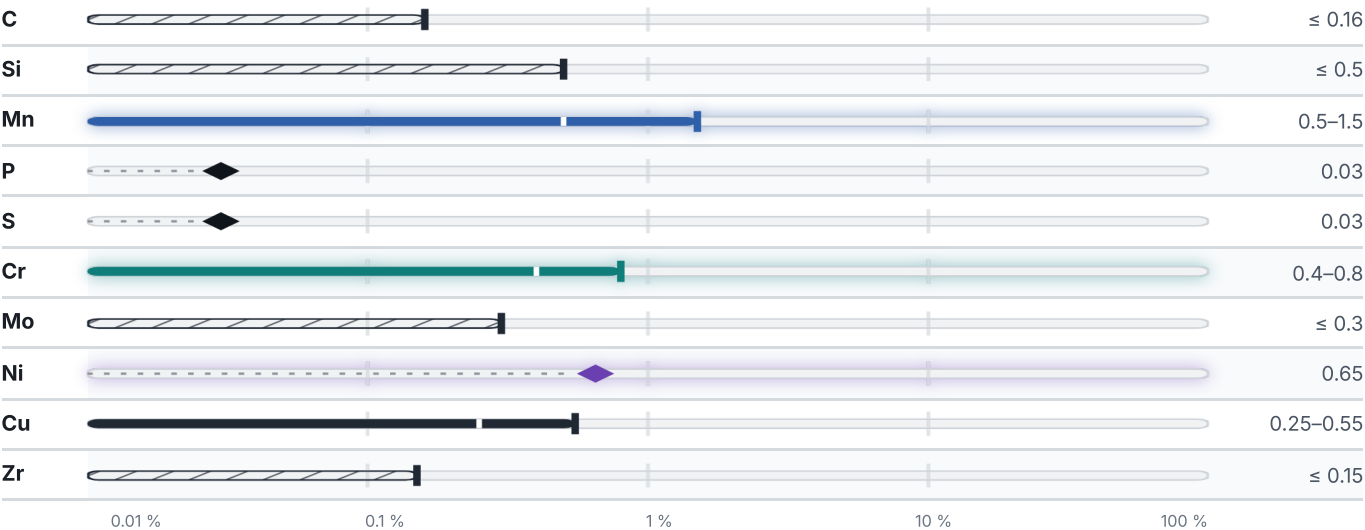
Chemical composition

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 814 °C	PREDICTED AE1 722 °C	PREDICTED ACM 423 °C	PREDICTED BS 526 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

8 designations · 6 documented as identical

United States	4	Europe	3
K11430	This grade's own name uns	S355J2G2W	This grade's own name din-en
K11538	This grade's own name uns	S355J2W	This grade's own name din-en
K12043	This grade's own name uns	WTSt 52-3	This grade's own name din-en
A709-50W	aisi-sae	Japan	1
		SMA50CP	jis

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 SMA50CP

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	1.8965	Aug 20, 2026