

MATERIAL NUMBER 1.0521 · CLASS 1.0

StSch 700

Material no. 1.0521

also listed as R 0700

Chemical composition, mechanical and physical property values, and 3 standard designations from 1 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

3 in 1 regions

PROPERTY VALUES

15 on file

Chemical composition

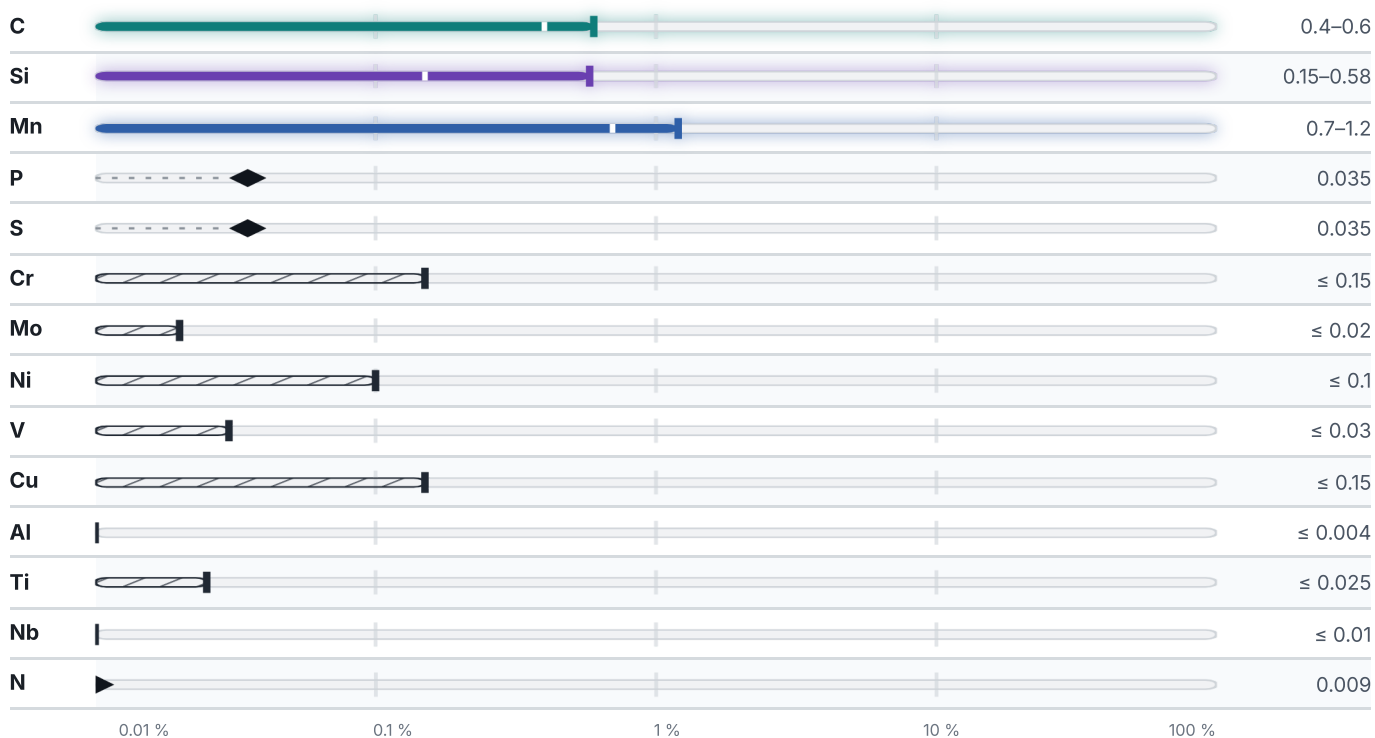
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.6 % ● Mn — 1 % ● C — 0.5 % ● Si — 0.4 % ● Traces & impurities · 0.6 %

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 754 °C	PREDICTED AE1 721 °C	PREDICTED ACM 679 °C	PREDICTED BS 553 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

3 designations · 3 documented as identical

Europe	3
R 0700 This grade's own name	din-en
R 200 This grade's own name	din-en
StSch 700 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 StSch 700

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	1.0521	Aug 20, 2026