

Q500MC

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

OTHER DESIGNATIONS

1 in 1 regions

PROPERTY VALUES

15 on file

Chemical composition

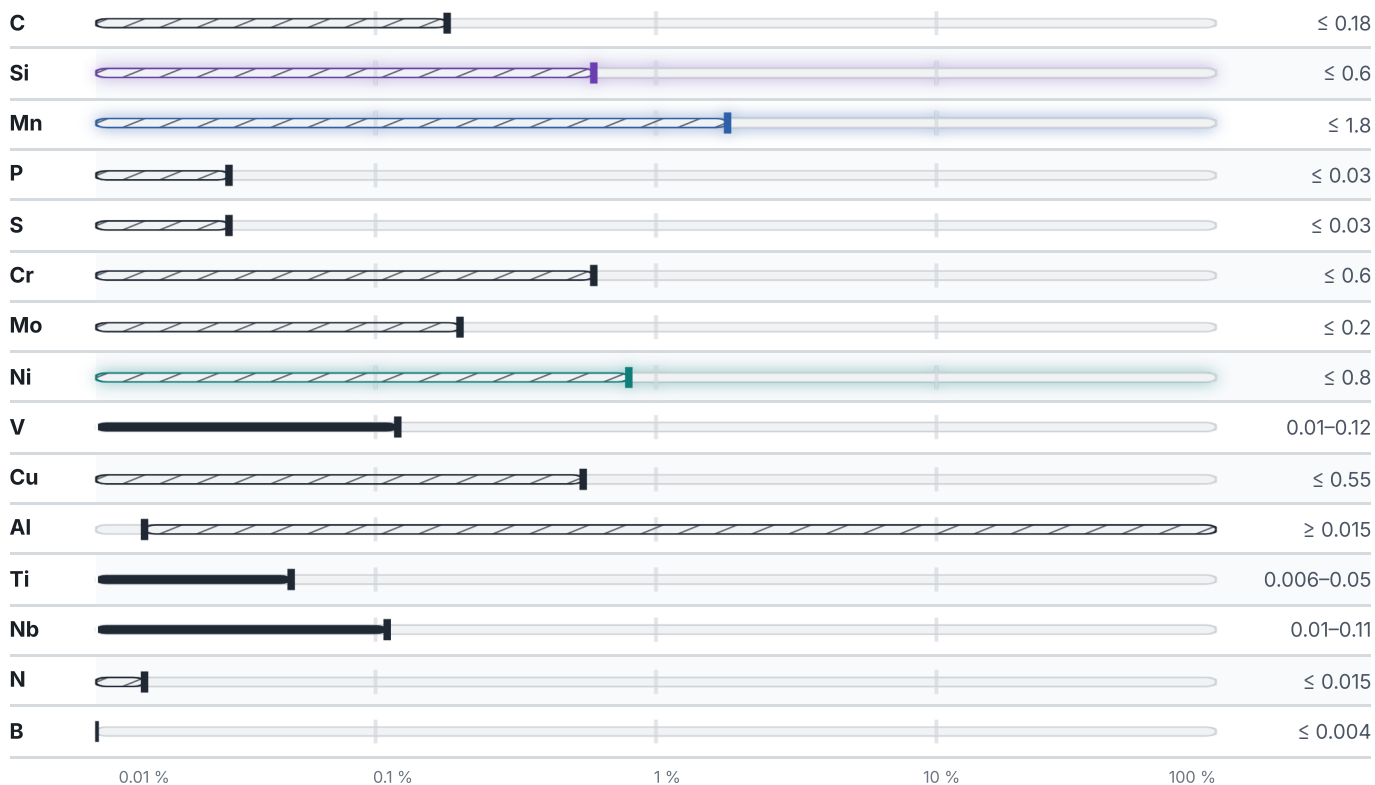
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95 % ● Mn — 1.8 % ● Ni — 0.8 % ● Si — 0.6 % ● Traces & impurities · 1.8 %

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 809 °C	PREDICTED AE1 714 °C	PREDICTED ACM 435 °C	PREDICTED BS 523 °C
-------------------------	-------------------------	-------------------------	------------------------

Mechanical properties

10 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	A %
≤ 16	610–770	≥ 17
16 – 40	610–770	≥ 17
40 – 63	600–760	≥ 17
63 – 80	590–750	≥ 17
80 – 100	540–730	≥ 17

Designations across standards

1 designations · 1 documented as identical

China	1
Q500MC This grade's own name	gb

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 Q500MC

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.

—

ISSUED

Aug 15, 2026