

Q420A

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

OTHER DESIGNATIONS

1 in 1 regions

PROPERTY VALUES

13 on file

Chemical composition

Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.4 % ● Mn — 1.7 % ● Ni — 0.8 % ● Si — 0.5 % ● Traces & impurities · 1.6 %

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 802 °C	PREDICTED AE1 706 °C	PREDICTED ACM 437 °C	PREDICTED BS 535 °C
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Mechanical properties

15 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
≤ 16	520–680	≥ 420	≥ 19
16 – 40	520–680	≥ 400	≥ 19
40 – 63	520–680	≥ 380	≥ 18
63 – 100	520–680	≥ 360	≥ 18
100 – 150	500–650	≥ 340	≥ 18

Designations across standards

1 designations · 1 documented as identical

China	1
Q420A 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 Q420A

Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

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MATERIAL NO.

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ISSUED

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