

MATERIAL NUMBER 1.8924 · CLASS 1.8

S500Q

Material no. 1.8924

Chemical composition, mechanical and physical property values, and 5 standard designations from 3 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 5 in 3 regions	PROPERTY VALUES 17 on file
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Chemical composition

Mass fraction in %



Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.

C		≤ 0.2
Si		≤ 0.8
Mn		≤ 1.7
P		0.025
S		0.015
Cr		≤ 1.5
Mo		≤ 0.7
Ni		2
V		≤ 0.12
Cu		≤ 0.5
Al		≥ 0.015
Ti		≤ 0.05
Nb		≤ 0.06
N		0.015
B		≤ 0.005
Zr		≤ 0.15

0.01 %0.1 %1 %10 %100 %

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 792 °C	PREDICTED AE1 723 °C	PREDICTED ACM 475 °C	PREDICTED BS 456 °C
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Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²
3 – 100	–	590–770
3 – 50	500	–
50 – 100	480	–
100 – 150	440	540–720

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 2 documented as identical

Europe	3	France	1
FeE500V	din-en	E500TR	afnor
S500Q This grade's own name	din-en	Sweden	1
StE 500 V This grade's own name	din-en	2614	SS

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 S500Q

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	1.8924	Aug 20, 2026