

MATERIAL NUMBER 1.8909 · CLASS 1.8

S500QL

Material no. 1.8909

Chemical composition, mechanical and physical property values, and 8 standard designations from 4 regions.

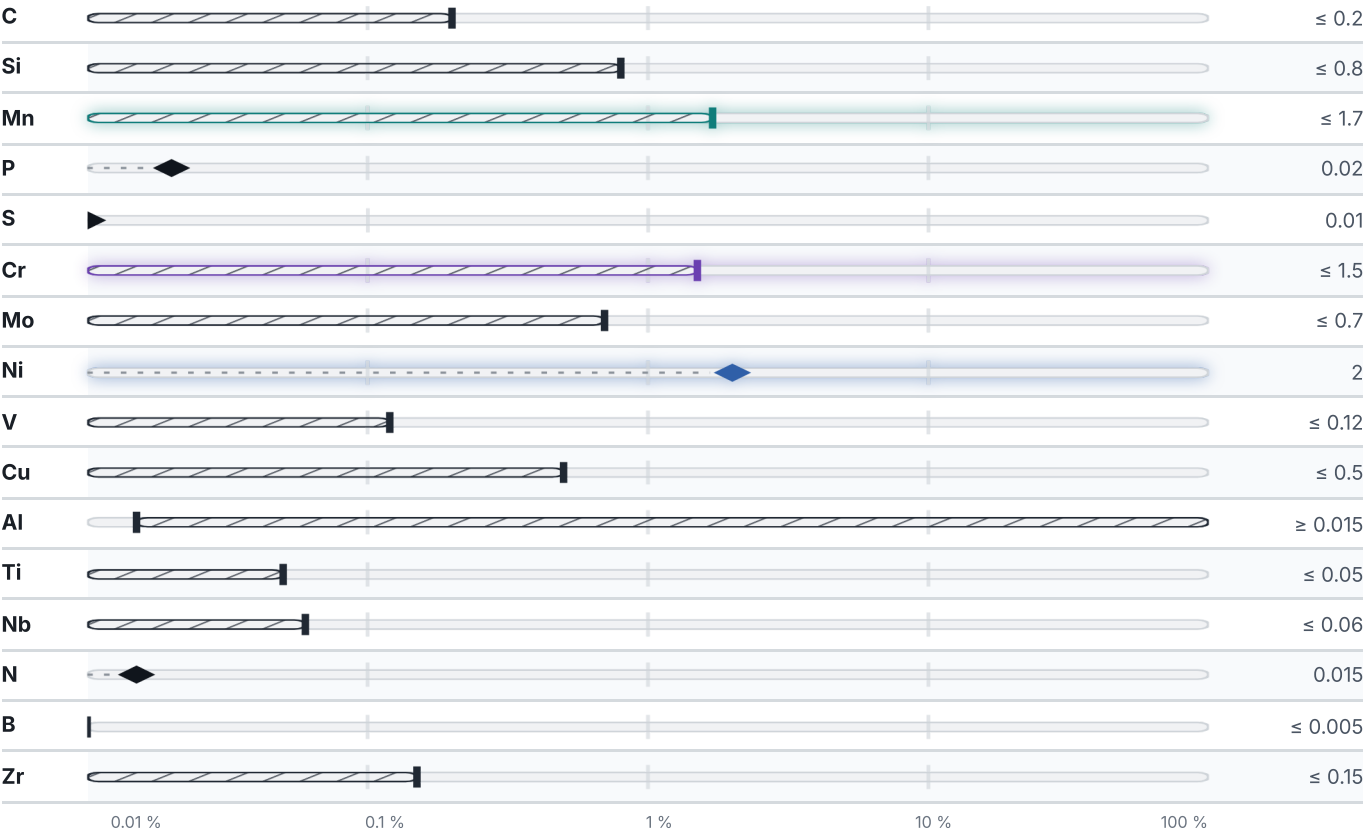
DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 8 in 4 regions	PROPERTY VALUES 17 on file
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Chemical composition

Mass fraction in %



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



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

8 designations · 2 documented as identical

Europe	3	International	1
FeE500VKT	din-en	E500	iso
S500QL This grade's own name	din-en		
TStE 500 V This grade's own name	din-en	Sweden	1
		2615	ss
France	3		
E500T	afnor		
E500TFP	afnor		
S500T	afnor		

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 S500QL

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026