

MATERIAL NUMBER 1.0493 · CLASS 1.0

S275NH

Material no. 1.0493

Chemical composition, mechanical and physical property values, and 3 standard designations from 2 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	3 in 2 regions	15 on file

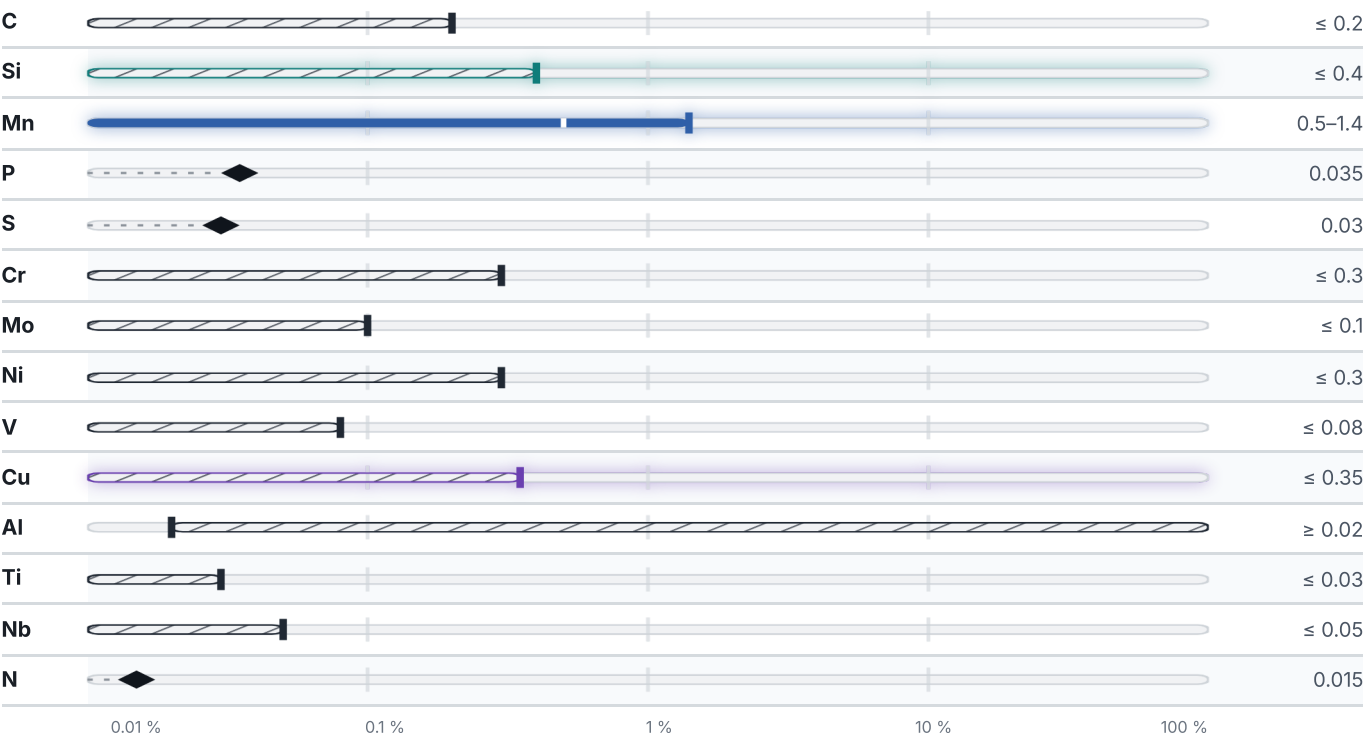
Chemical composition

Mass fraction in %

What this alloy is



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 811 °C	PREDICTED AE1 715 °C	PREDICTED ACM 435 °C	PREDICTED BS 558 °C
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Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	A %
≤ 16	275	–
16 – 40	265	–
40 – 65	255	–
≤ 65	–	24
≤ 65	–	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

3 designations · 3 documented as identical

Europe	2	United States	1
S275NH This grade's own name	din-en	K01802 This grade's own name	uns
StE 285 N 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 S275NH

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	1.0493	Aug 20, 2026