

MATERIAL NUMBER 1.1106 · CLASS 1.1

P355NL2

Material no. 1.1106

also listed as EStE 355

Chemical composition, mechanical and physical property values, and 7 standard designations from 3 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

7 in 3 regions

PROPERTY VALUES

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 710 °C	PREDICTED ACM 421 °C	PREDICTED BS 546 °C
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Mechanical properties

12 values across 1 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²	A %
≤ 16	355	–	–
16 – 40	345	–	–
40 – 60	335	–	–
≤ 60	–	490–630	22
60 – 100	315	470–610	–
60 – 250	–	–	21
100 – 150	305	460–600	–
150 – 250	295	450–590	–

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

7 designations · 4 documented as identical

United States	3	Europe	2
K02700 This grade's own name	uns	ESTe 355 This grade's own name	din-en
K12437	uns	P355NL2 This grade's own name	din-en
K12510 This grade's own name	uns		
		France	2
		A510FP	afnor
		A530FP	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 P355NL2

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