

MATERIAL NUMBER 1.0112 · CLASS 1.0

P235S

Material no. 1.0112

Chemical composition, mechanical and physical property values, and 9 standard designations from 6 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	9 in 6 regions	7 on file

Chemical composition

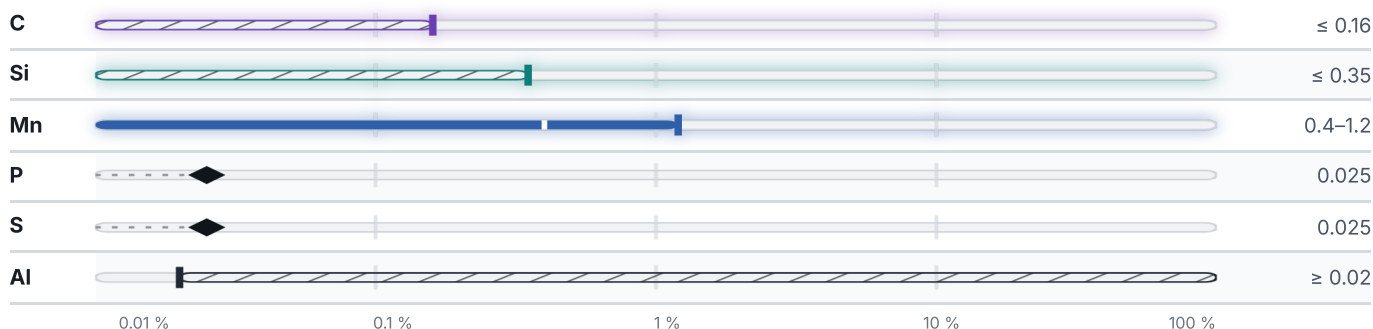
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.6 % ● Mn — 0.8 % ● Si — 0.4 % ● C — 0.2 % ● Traces & impurities · 0.1 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Cr, Mo.

Mechanical properties

7 values across 1 conditions

NORMALIZED	REH N/mm ²	A %
2 – 2.5	–	20
2.5 – 3	–	21
3 – 40	–	26
≤ 16	235	–
16 – 40	225	–
40 – 60	215	25

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

9 designations · 5 documented as identical

United States	3	United Kingdom	1
K01700 This grade's own name	uns	164-360B-LT20	bs
K02200 This grade's own name	uns		
K02801 This grade's own name	uns	France	1
		A37AP	afnor
Europe	2	Spain	1
P235S This grade's own name	din-en	AE235C	une
SPH 235 This grade's own name	din-en		
		Italy	1
		Fe360-2KW	uni

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 P235S

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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ISSUED

Aug 20, 2026