

MATERIAL NUMBER 1.0566 · CLASS 1.0

A510FP1

Material no. 1.0566

also listed as P355NL1

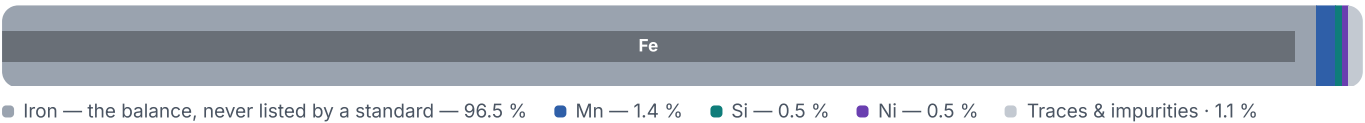
Chemical composition, mechanical and physical property values, and 29 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 29 in 10 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
-------------------------	-------------------------	-------------------------	------------------------

Mechanical properties

12 values across 1 conditions

NORMALIZED	REH N/mm²	RM N/mm²	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/cm³

Designations across standards

29 designations · 10 documented as identical

United States		13	Europe		4
K01600	This grade's own name	uns	1.0566		din-en
K02007	This grade's own name	uns	P355NL1	This grade's own name	din-en
K02302		uns	P355QH1		din-en
K02700	This grade's own name	uns	TStE 355	This grade's own name	din-en
K02701		uns			
K02803	This grade's own name	uns	France		4
K03301	This grade's own name	uns	A510AP		afnor
K11803	This grade's own name	uns	A510FP1		afnor
K12037	This grade's own name	uns	A530AP		afnor
K12609		uns	E355FP		afnor
A737Gr.B		aisi-sae	United Kingdom		2
A 350 Grade LF2		astm	224Gr.490		bs
A350LF2	This grade's own name	astm	50EE		bs

International	1	Czechia	1
E355E	iso	11503	csn
Italy	1	Poland	1
FeE355-3	uni	18G2A	pn
Sweden	1	Finland	1
2107	ss	Fe355EP	sfs

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 A510FP1

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	1.0566	Aug 20, 2026