

MATERIAL NUMBER 1.0565 · CLASS 1.0

P355NH

Material no. 1.0565

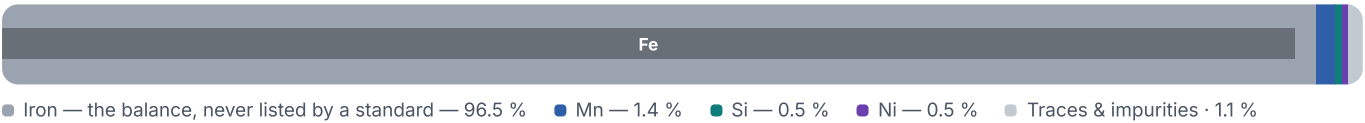
Chemical composition, mechanical and physical property values, and 18 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 18 in 6 regions	PROPERTY VALUES 15 on file
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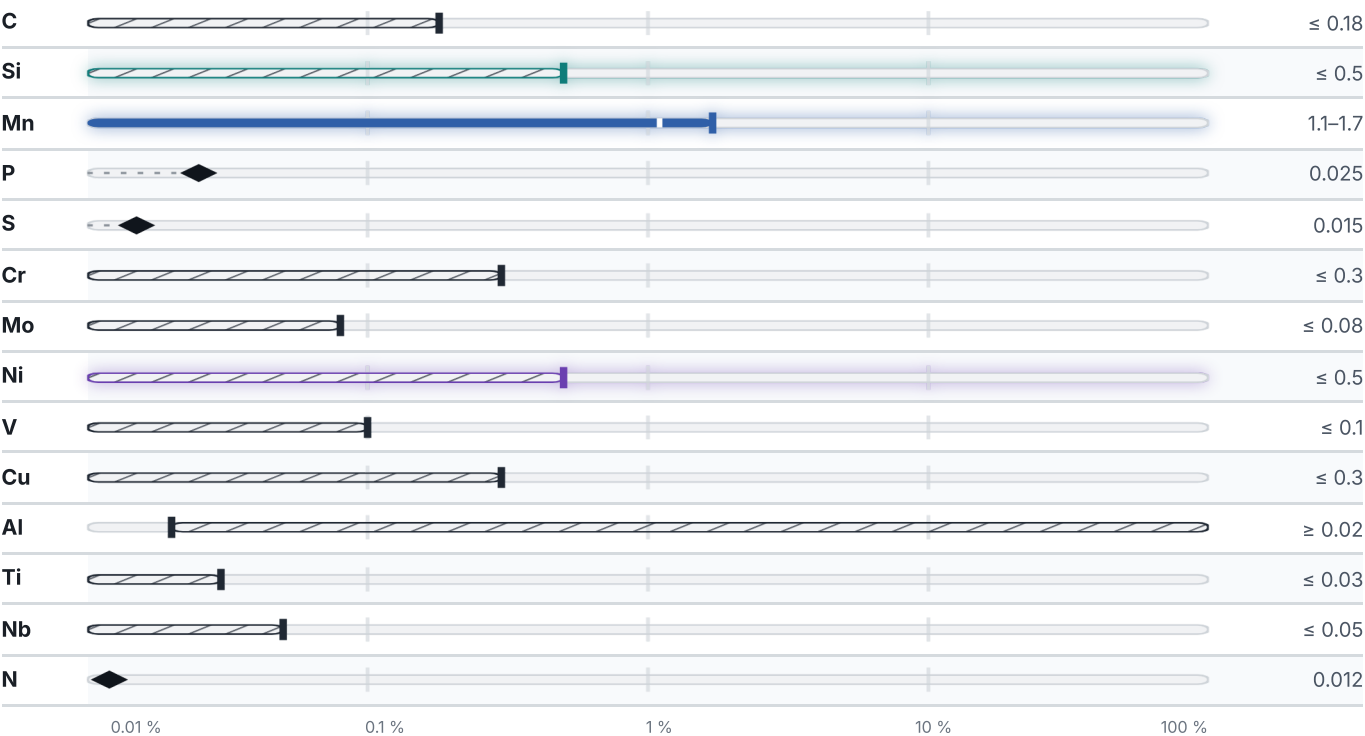
Chemical composition

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

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Normalizing	Temperature not stated	—

Designations across standards

18 designations · 10 documented as identical

United States		12	Europe		2
K01600	This grade's own name	uns	P355NH	This grade's own name	din-en
K02007	This grade's own name	uns	WStE 355	This grade's own name	din-en
K02700	This grade's own name	uns	United Kingdom		
K02701		uns	224Gr.490		
K02803	This grade's own name	uns	France		
K11803	This grade's own name	uns	A510AP		
K12001		uns	Italy		
K12037	This grade's own name	uns	FeE355-2		
K12609		uns	Poland		
A662Gr.C		aisi-sae	18G2A		
A350LF2	This grade's own name	astm			
ASME SA350LF2	This grade's own name	astm			

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 P355NH

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	1.0565	Aug 20, 2026