

MATERIAL NUMBER 1.0487 · CLASS 1.0

P275NH

Material no. 1.0487

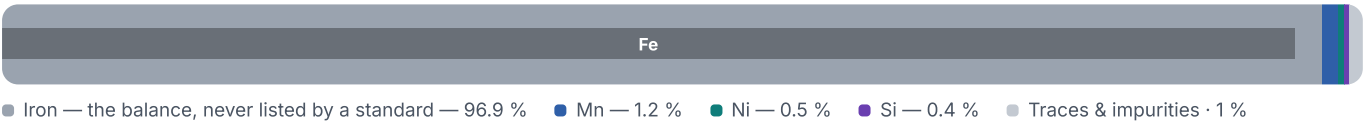
Chemical composition, mechanical and physical property values, and 10 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 3 regions	PROPERTY VALUES 15 on file
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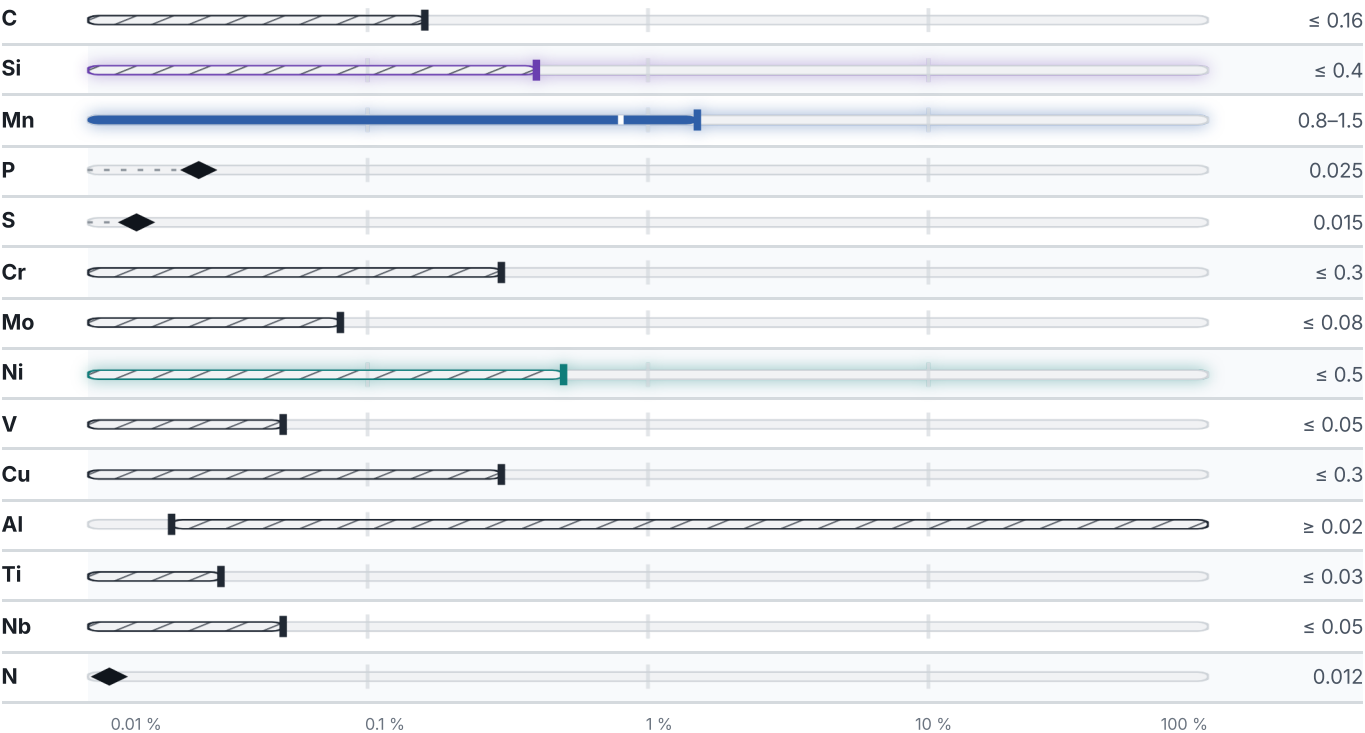
Chemical composition

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 813 °C	PREDICTED AE1 711 °C	PREDICTED ACM 401 °C	PREDICTED BS 554 °C
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Mechanical properties

12 values across 1 conditions

NORMALIZED	REH N/mm²	RM N/mm²	A %
≤ 16	275	—	—
16 – 40	265	—	—
40 – 60	255	—	—
≤ 60	—	390–510	24
60 – 100	235	370–490	—
60 – 250	—	—	23
100 – 150	225	360–480	—
150 – 250	215	350–470	—

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Normalizing	Temperature not stated	—

Designations across standards

10 designations · 8 documented as identical

United States	7	Europe	2
K01701 This grade's own name	uns	P275NH This grade's own name	din-en
K01802 This grade's own name	uns	WStE 285 This grade's own name	din-en
K02100 This grade's own name	uns		
K02402 This grade's own name	uns	United Kingdom	1
K02403 This grade's own name	uns	224Gr.430	bs
K02703 This grade's own name	uns		
A516Gr.60	aisi-sae		

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 P275NH
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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ISSUED
Aug 20, 2026