

MATERIAL NUMBER 1.0437 · CLASS 1.0

A42FP1

Material no. 1.0437

also listed as P310NB

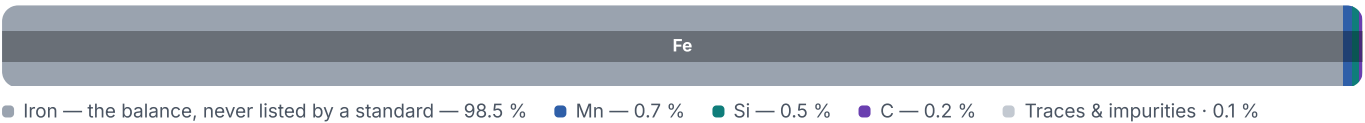
Chemical composition, mechanical and physical property values, and 21 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 21 in 8 regions	PROPERTY VALUES 10 on file
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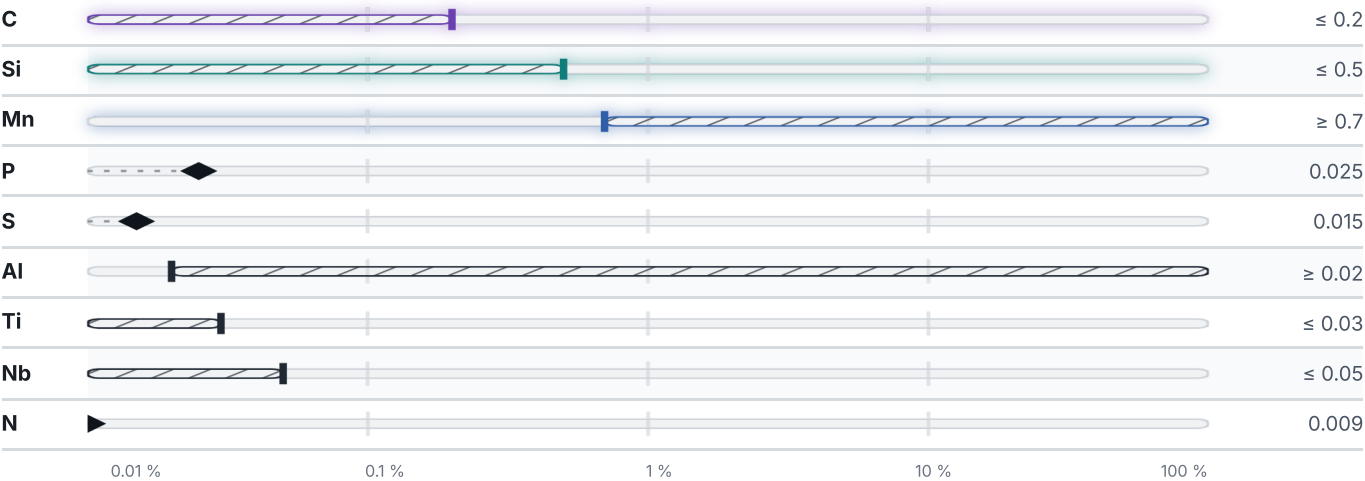
Chemical composition

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

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

Mechanical properties

2 values across 1 conditions

NORMALIZED	A % · Lo = 5,65 √So
≤ 3	21
3 – 5	28

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with (or)		
Normalizing	Temperature not stated	—
Normalizing	Temperature not stated	—

Designations across standards

21 designations · 8 documented as identical

United States		7	France		2
K01701	This grade's own name	uns	A42FP1		afnor
K02100	This grade's own name	uns	BS3		afnor
K02104	This grade's own name	uns			
K02402	This grade's own name	uns	Italy		2
K03006	This grade's own name	uns	Fe410-2KG		uni
K03009	This grade's own name	uns	FeE31KR		uni
Gr.60		aisi-sae	Spain		1
Europe		5	AE345KR		une
1.0437		din-en			
17Mn4		din-en	Japan		1
ASt41		din-en	SG325		jis
P310NB	This grade's own name	din-en			
TTSt 41	This grade's own name	din-en	Czechia		1
United Kingdom		2	11419		csn
224-400		bs			
TypeC		bs			

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 A42FP1

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

[Start an enquiry](#)

DATASHEET ONLINE

[View the material page](#)

GRADE SEARCH

[Search all grades](#)

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ISSUED

Aug 20, 2026