

MATERIAL NUMBER 1.0488 · CLASS 1.0

P275NL1

Material no. 1.0488

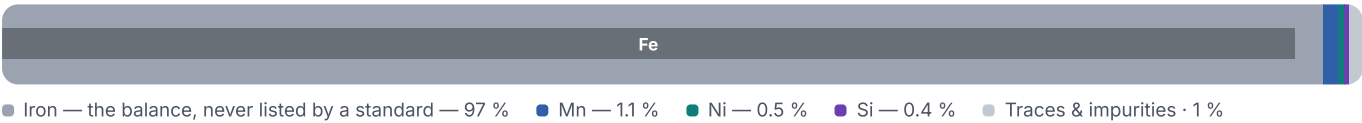
Chemical composition, mechanical and physical property values, and 18 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 18 in 4 regions	PROPERTY VALUES 15 on file
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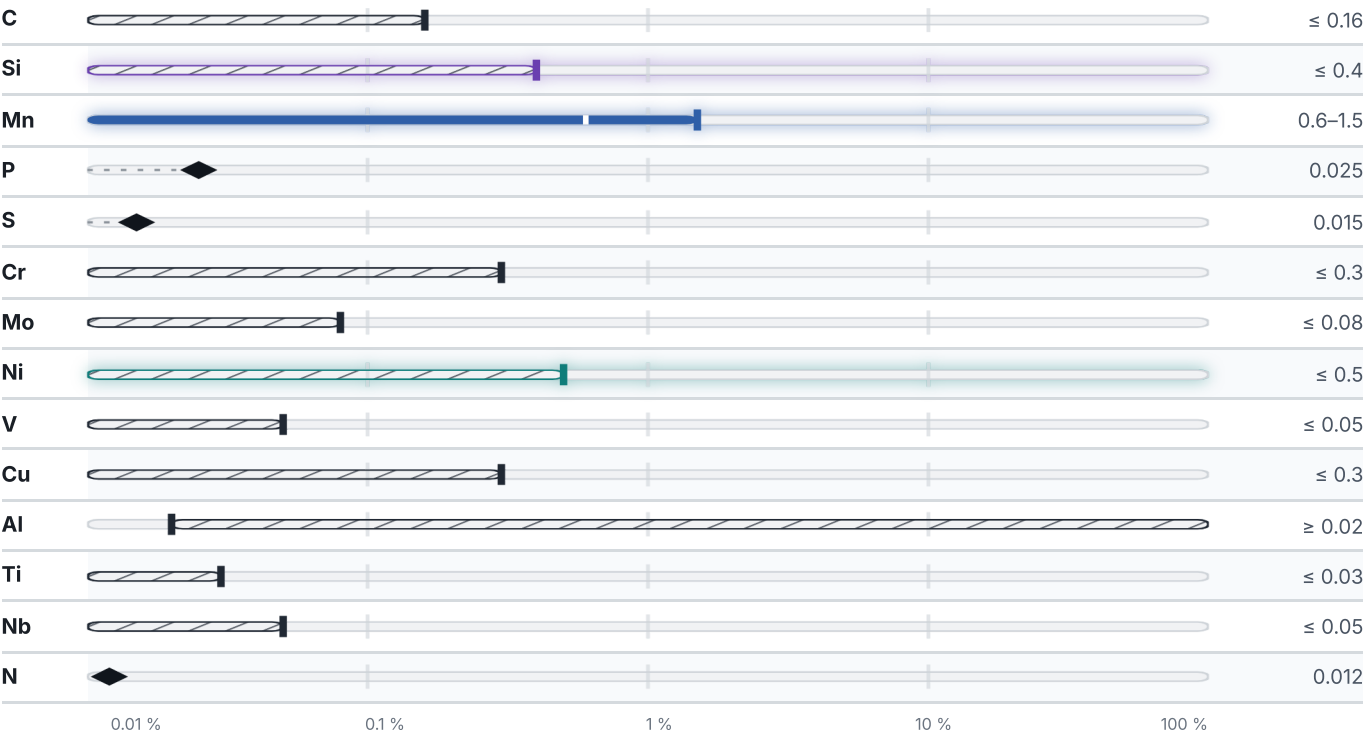
Chemical composition

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/mm ²	RM N/mm ²	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/cm ³

Designations across standards

18 designations · 12 documented as identical

United States13		Europe3	
K01701	This grade's own nameuns	A662Gr.A	din-en
K01800	This grade's own nameuns	P275NL1	This grade's own namedin-en
K01803	This grade's own nameuns	TStE 285	This grade's own namedin-en
K01804	This grade's own nameuns		
K02100	This grade's own nameuns	United Kingdom / France1	
K02203	This grade's own nameuns	01802	This grade's own namebsi-afnor
K02402	This grade's own nameuns		
K02403	This grade's own nameuns	United Kingdom1	
K02700	uns	43EE	bs
K02703	This grade's own nameuns		
K12437	uns		
A633A	aisi-sae		
A662Gr.A	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 P275NL1
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