

MATERIAL NUMBER 1.0436 · CLASS 1.0

18K

Material no. 1.0436

also listed as P305GH

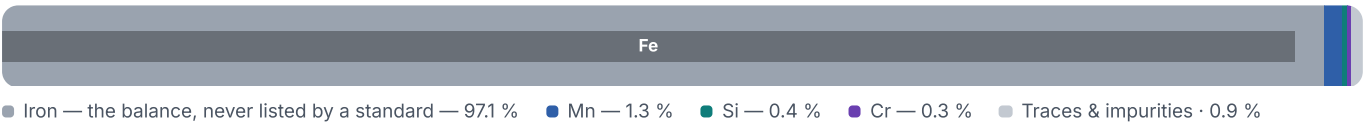
Chemical composition, mechanical and physical property values, and 38 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 38 in 14 regions	PROPERTY VALUES 12 on file
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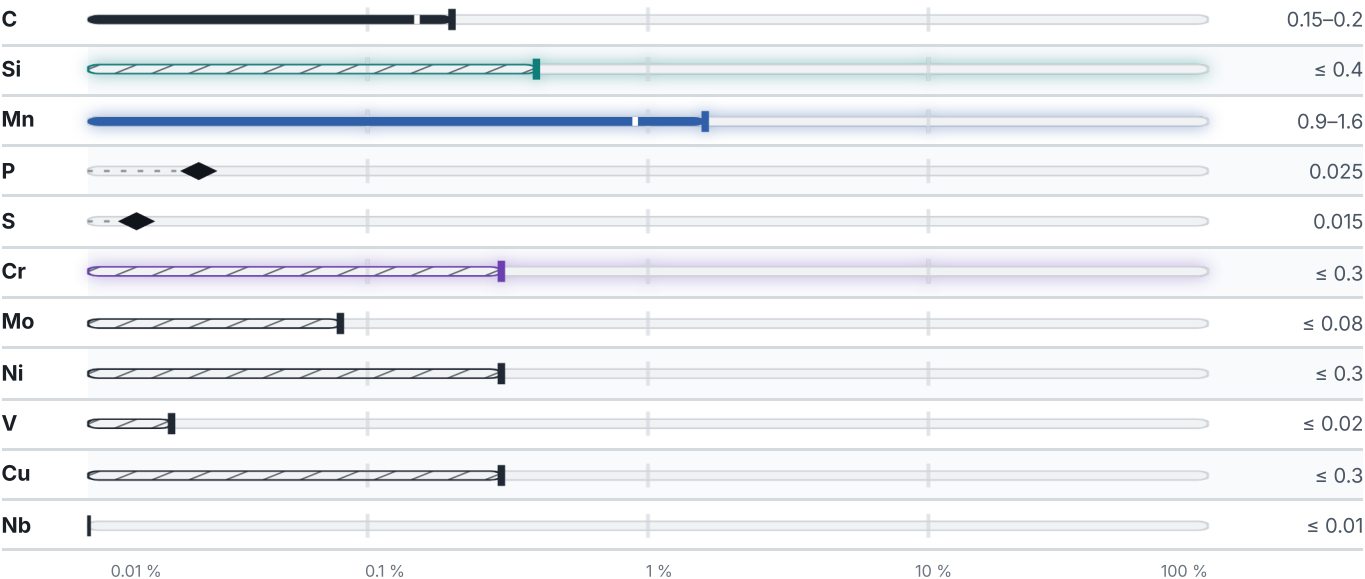
Chemical composition

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 808 °C	PREDICTED AE1 712 °C	PREDICTED ACM 436 °C	PREDICTED BS 551 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

38 designations · 4 documented as identical

United States10		France2	
K02007	This grade's own nameuns	A48AP	afnor
K02403	This grade's own nameuns	A48FP	afnor
K03006	This grade's own nameuns	Russia / CIS2	
K12447	uns	18k	gost
K02100	aisi-sae	18K	gost
K02704	aisi-sae	Poland2	
K02707	aisi-sae	K18	pn
K02800	aisi-sae	St44K	pn
K03006	aisi-sae	Hungary2	
X46	aisi-sae	A45.47	msz
United Kingdom4		KL3	msz
151-430	bs	Europe1	
161-430	bs	P305GH	This grade's own namedin-en
223-460	bs	Sweden1	
430LT	bs	2103	ss
Japan4		Australia / New Zealand1	
SG325	jis	7-430R	as-nzs
SPV315	jis	Bulgaria1	
STB410	jis	18K	bds
STPT480	jis	Austria1	
Czechia4		17Mn4KW	onorm
11 481	csn		
11444	csn		
11478	csn		
12022	csn		
Italy3			
C18	uni		
Fe510-1KG	uni		
Fe510-1KW	uni		

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 18K
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

MATERIAL NO.
1.0436

ISSUED
Aug 20, 2026