

MATERIAL NUMBER 1.0473 · CLASS 1.0

A516Gr.70

Material no. 1.0473

also listed as 19Mn6

Chemical composition, mechanical and physical property values, and 26 standard designations from 9 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

26 in 9 regions

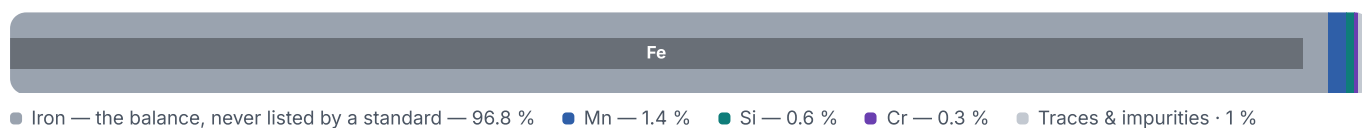
PROPERTY VALUES

15 on file

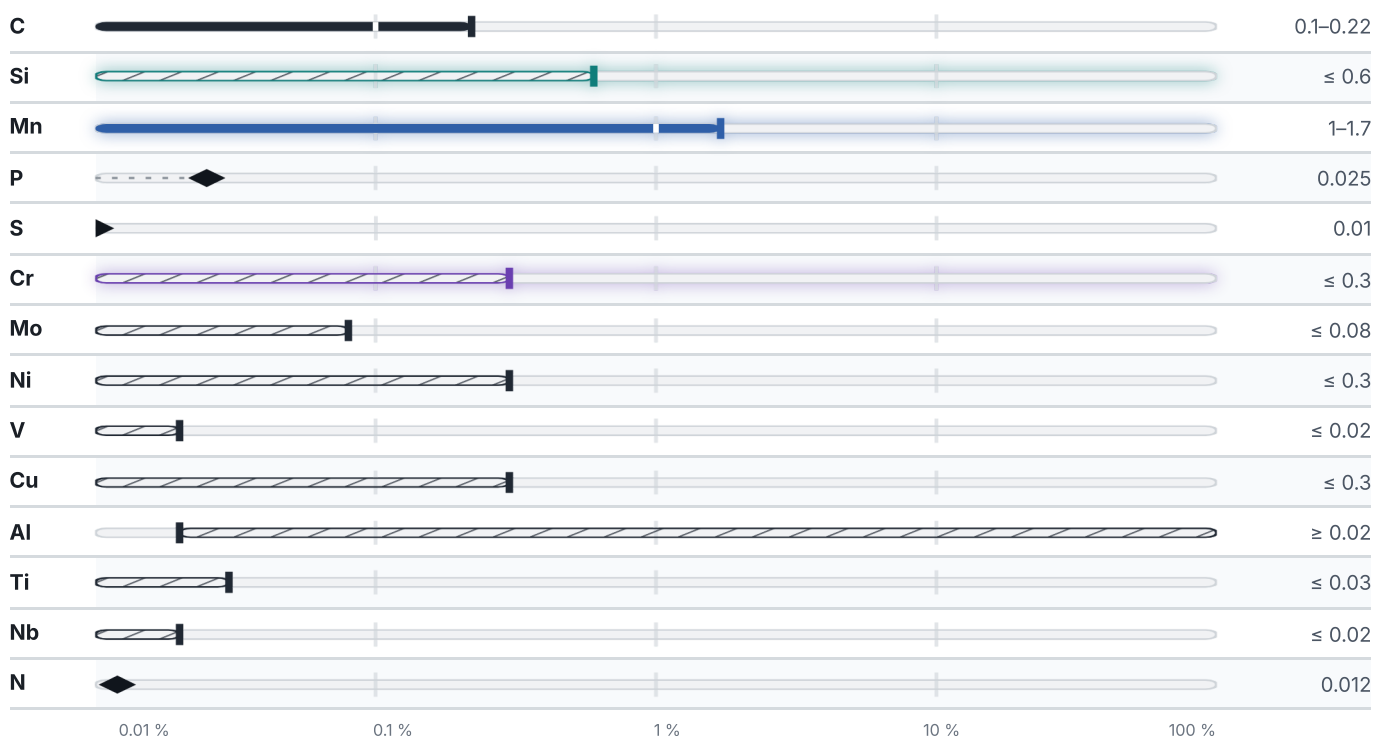
Chemical composition

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 812 °C	PREDICTED AE1 715 °C	PREDICTED ACM 457 °C	PREDICTED BS 547 °C
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Mechanical properties

10 values across 1 conditions

NORMALIZED	REH N/mm²	RM N/mm²
≤ 16	355	–
16 – 40	345	–
40 – 60	335	–
≤ 60	–	510–650
60 – 100	315	490–630
100 – 150	295	480–630
150 – 250	280	470–630

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

26 designations · 6 documented as identical

United States10		France3	
K02700	This grade's own nameuns	A52CP	afnor
K02803	This grade's own nameuns	AP	afnor
K03103	This grade's own nameuns	P335GH	afnor
K03300	This grade's own nameuns	Sweden3	
K12437	uns		
A414Gr.G	aisi-sae	2101	ss
A516Gr.70	aisi-sae	2102	ss
A537	aisi-sae	2103	ss
A537CL1	aisi-sae	Spain2	
A537	astm		
Europe3			
19Mn6	This grade's own namedin-en	A 47 RB II	une
A537CL1	din-en	A52RCI	une
P355GH	This grade's own namedin-en	Finland2	
		Fe52BP	sfs
		Fe52DP	sfs

United Kingdom	1	Italy	1
224Gr.490	bs	Fe510-1KW	uni
Japan	1		
SPV36	jis		

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 A516Gr.70
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	1.0473	Aug 20, 2026