

MATERIAL NUMBER 1.0426 · CLASS 1.0

SM53B

Material no. 1.0426

also listed as P280GH

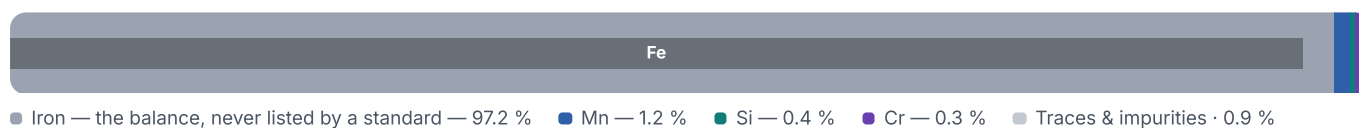
Chemical composition, mechanical and physical property values, and 56 standard designations from 17 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	56 in 17 regions	12 on file

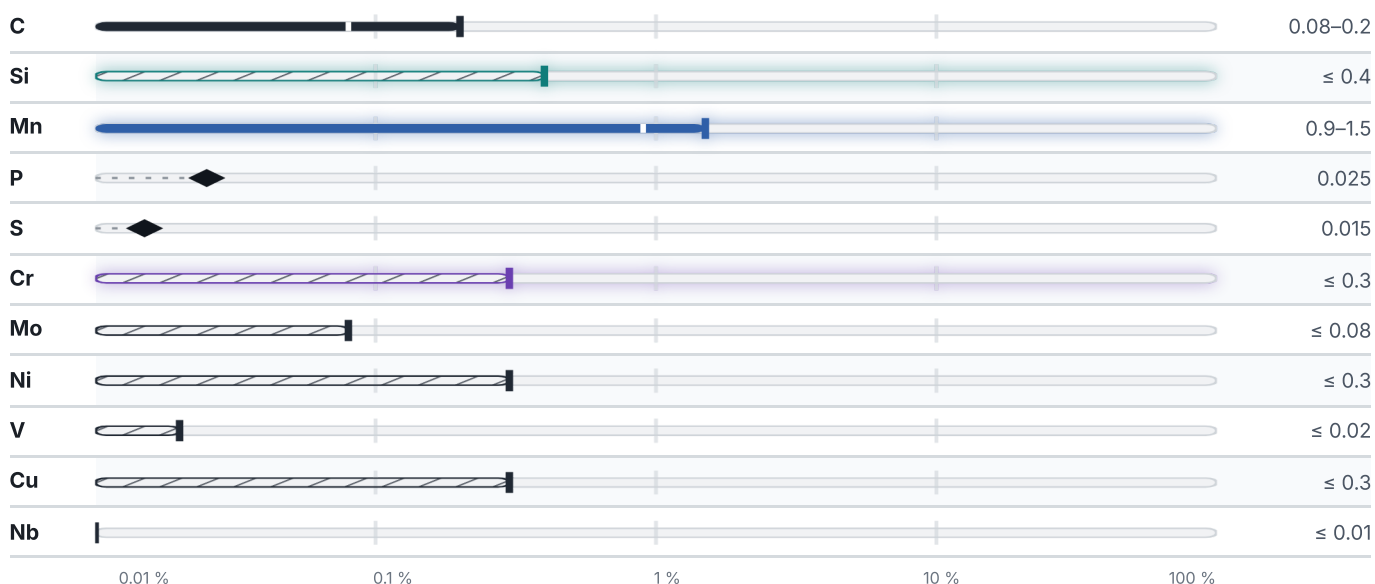
Chemical composition

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 810 °C	PREDICTED AE1 714 °C	PREDICTED ACM 436 °C	PREDICTED BS 555 °C
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Mechanical properties

2 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²
≤ 35	280
35 – 160	255

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

56 designations · 5 documented as identical

United States10		United Kingdom6	
K01701	This grade's own nameuns	1501Gr.164-360	bs
K02100	This grade's own nameuns	151-400	bs
K02402	This grade's own nameuns	161-430	bs
Gr.60	aisi-sae	164-360	bs
K01701	aisi-sae	400-22	bs
K02401	aisi-sae	P265GH	bs
K02402	aisi-sae		
K02505	aisi-sae	France4	
K02801	aisi-sae	A42AP	afnor
X42	aisi-sae	A42CP	afnor
		A42F	afnor
Japan8		P265GH	afnor
SG295	jis		
SGV410	jis	Italy4	
SGV450	jis	Fe4102KG	uni
SGV480	jis	Fe4102KW	uni
SM53B	jis	Fe410KW	uni
SM53C	jis	P265GH	uni
SPV235	jis		
SPV315	jis	Sweden3	
		1430	ss
		1431	ss
		1432	ss

Czechia	3	Hungary	2
11 418	csn	KL2C	msz
11416	csn	P265GH	msz
11431	csn		
South Korea	3	Romania	2
SM53C This grade's own name	ks	K410	stas
SPPV315	ks	OL44.3	stas
SPPV355	ks	Bulgaria	2
Spain	2	16K	bds
A42RCI	une	P265GH	bds
A42RCII	une	Europe	1
Russia / CIS	2	P280GH This grade's own name	din-en
20K	gost	Austria	1
20K	gost	St41KW	onorm
Poland	2	Belgium	1
St3M	pn	D42-2	nbn
St41K	pn		

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 SM53B

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	1.0426	Aug 20, 2026