

MATERIAL NUMBER 1.0553 · CLASS 1.0

Fe52C

Material no. 1.0553

also listed as S 355 JO

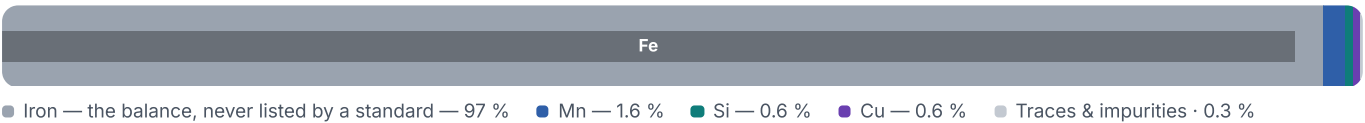
Chemical composition, mechanical and physical property values, and 30 standard designations from 20 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 30 in 20 regions	PROPERTY VALUES 8 on file
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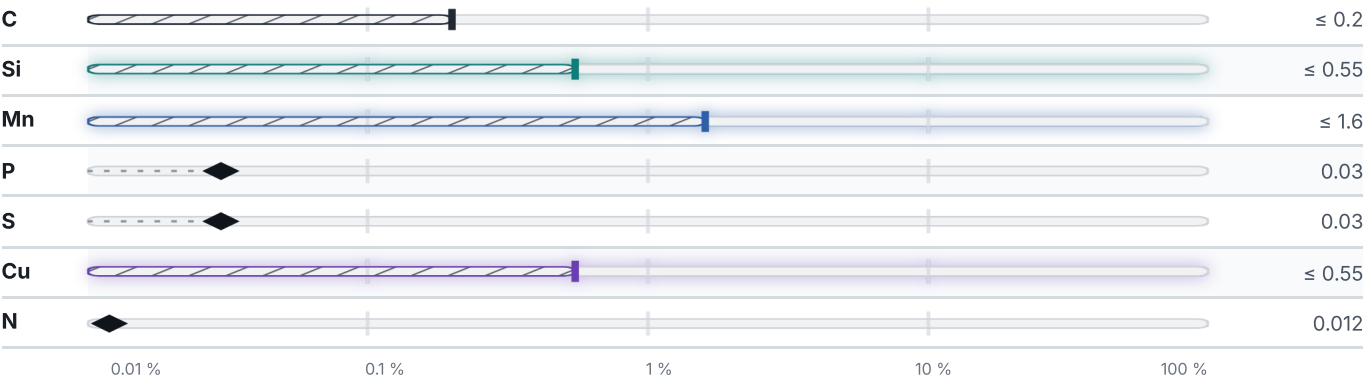
Chemical composition

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: Ni, Cr, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

30 designations · 3 documented as identical

Europe	5	Spain	1
A633	din-en	AE355C	une
Fe510C	din-en	Norway	1
S 355 JO	This grade's own name din-en	NS12153	ns
S355J0	din-en	Japan	1
St 52-3 U	This grade's own name din-en	SS490B	jis
United States	3	China	1
K12000	This grade's own name uns	16Mn	gb
A441	aisi-sae	Portugal	1
A633	aisi-sae	FE510-C	np
International	2	Italy	1
E355C	iso	Fe510C	uni
Fe510C	iso	Slovakia	1
Sweden	2	11 523	stn
2132-01	ss	Poland	1
2134-01	ss	18G2A	pn
Czechia	2	Serbia	1
11523	csn	Č.0561	srps
422 660	csn	Austria	1
Hungary	2	St510C	onorm
52 C	msz	Belgium	1
Fe 355 C	msz	AE355C	nbn
United Kingdom	1	Finland	1
50C	bs	Fe52C	sfs
France	1		
E36-3	afnor		

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 Fe52C

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026