

MATERIAL NUMBER 1.0553 · CLASS 1.0

1.0553

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

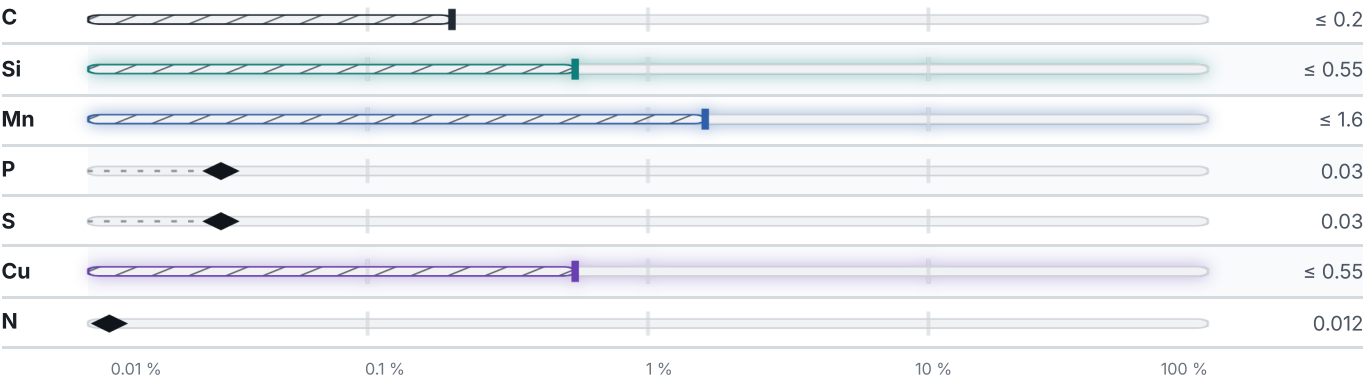
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97 % ● Mn — 1.6 % ● Si — 0.6 % ● Cu — 0.6 % ● Traces & impurities · 0.3 %

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/cm ³

Designations across standards

30 designations · 3 documented as identical

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

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 1.0553

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026