

MATERIAL NUMBER 1.0547 · CLASS 1.0

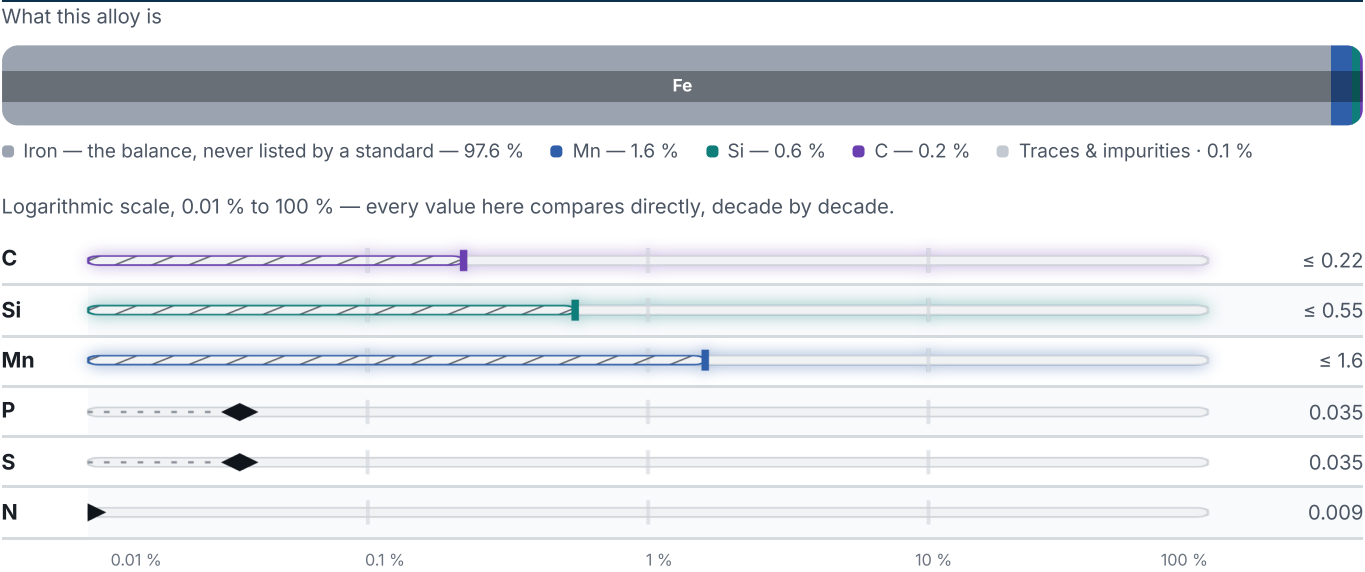
1.0547

Chemical composition, mechanical and physical property values, and 7 standard designations from 5 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 7 in 5 regions	PROPERTY VALUES 7 on file
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Chemical composition

Mass fraction in %



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.

Mechanical properties

13 values across 1 conditions

CONDITION · DIMENSION	REH N/mm²	RM N/mm²	A %
≤ 3	—	510–680	—
3 – 100	—	470–630	—

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²	A %
≤ 16	355	–	–
16 – 40	345	–	–
40 – 63	335	–	21
≤ 40	–	–	22
63 – 80	325	–	–
63 – 100	–	–	20
80 – 100	315	–	–
100 – 120	295	450–600	18

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

7 designations · 3 documented as identical

Europe	2	United States	1
S355J0H This grade's own name	din-en	K12037 This grade's own name	uns
St 52-3 U This grade's own name	din-en		
Czechia	2	Russia / CIS	1
11523	csn	Šch15	gost
14100	csn	Slovakia	1
		11 523	stn

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 1.0547

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	1.0547	Aug 20, 2026