

MATERIAL NUMBER 1.0577 · CLASS 1.0

11531

Material no. 1.0577

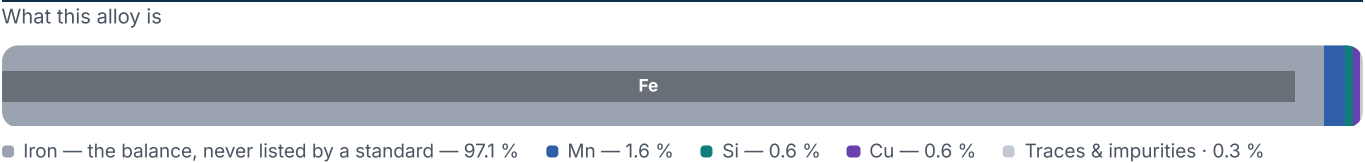
also listed as S355J2

Chemical composition, mechanical and physical property values, and 22 standard designations from 11 regions.

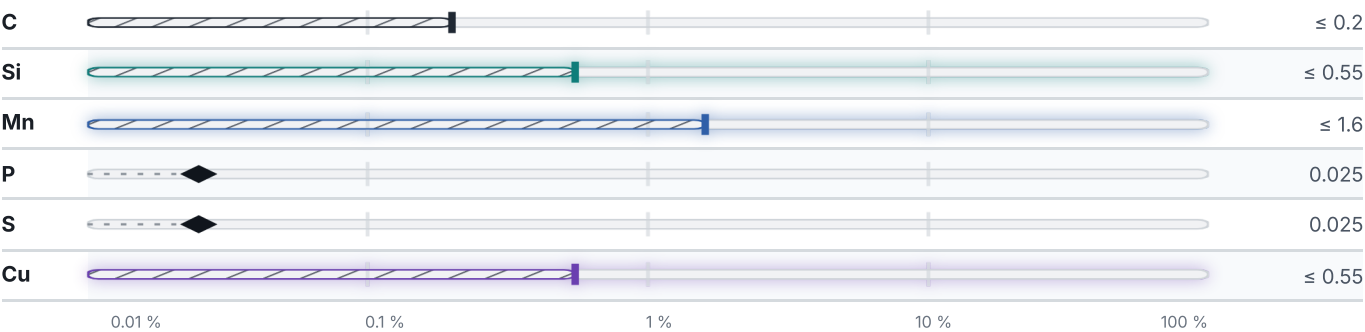
DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 22 in 11 regions	PROPERTY VALUES 7 on file
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Chemical composition

Mass fraction in %



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.

Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
Rolled stock, GOST 5521-93	490–620	355	21
Rolled stock, GOST 52927-2008	490–630	355	21

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

22 designations · 3 documented as identical

Europe	6	Italy	2
1.0577	din-en	FE510D	uni
ASt52	din-en	S355J2G4	uni
Fe510D2	din-en		
S355J2	This grade's own name din-en	Czechia	2
S355J2G4	This grade's own name din-en	11503	csn
St52-3N	din-en	11531	csn
United States	3	Japan	1
K12447	This grade's own name uns	SS490YA	jis
A656	aisi-sae		
A738	aisi-sae	China	1
		Q345D	gb
United Kingdom	2	Russia / CIS	1
224-460	bs	17G16	gost
50D	bs		
France	2	Sweden	1
A52FP	afnor	2134-01	ss
E36	afnor		
		Slovakia	1
		11 503	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 11531

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

Start an enquiry