

MATERIAL NUMBER 1.1545 · CLASS 1.1

S111

Material no. 1.1545

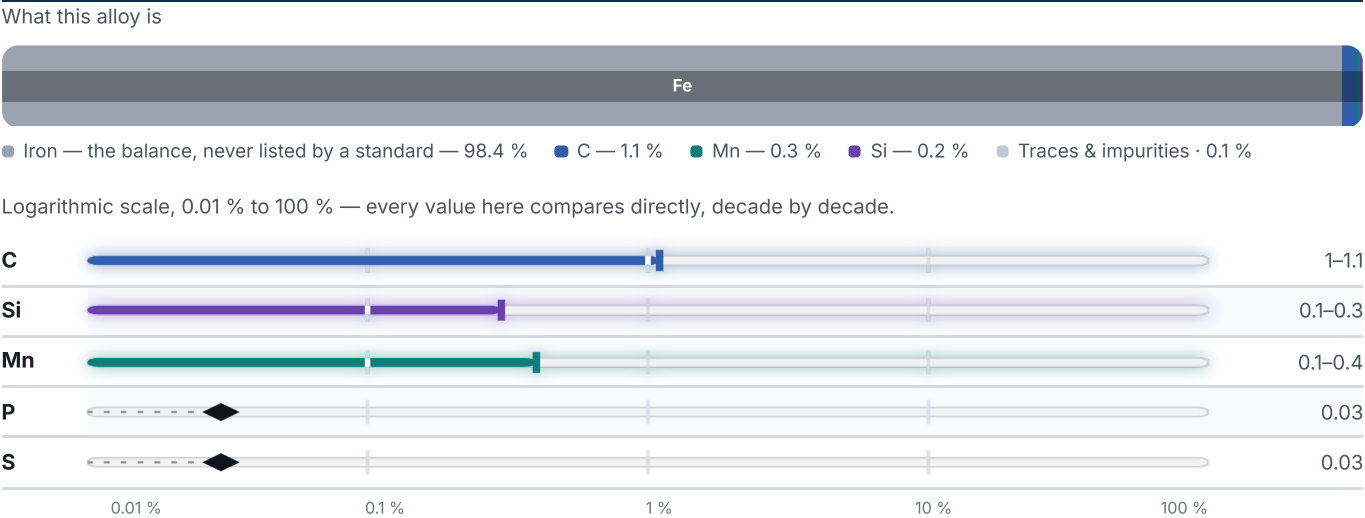
also listed as C105U

Chemical composition, mechanical and physical property values, and 67 standard designations from 19 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 67 in 19 regions	PROPERTY VALUES 8 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

10 values across 3 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	HB
Rolled stock hotrolled, GOST 1414-75	410	–	22	34	–

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	HB
Rolled stock, GOST 1414-75	490	390	10	–	–
Rolled stock GOST 1414-75	–	–	–	–	207
CONDITION · DIMENSION	HB		HRC		
(SK3) Annealed	212		–		
(SK3) Quenched and tempered	–		61		
SOFT ANNEALED			HB		
Soft annealed			212		

Physical properties

3 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

67 designations · 4 documented as identical

United States		11	Russia / CIS		6
T72301		uns	U10A		gost
W110		uns	U10A		gost
G51320		aisi-sae	U11		gost
T72301		aisi-sae	U11A		gost
T72305		aisi-sae	Y10A		gost
W1		aisi-sae	Y11		gost
W110	This grade's own name	aisi-sae	France		5
W110 przybliż		aisi-sae			
W1C 1,00%	This grade's own name	aisi-sae			
W210		aisi-sae			
W5		aisi-sae			
			C105E2U		afnor
			XC100		afnor
			Y1-105		afnor
			Y105		afnor
			Y120		afnor

Japan	5	Europe	3
SK105	jis	1.1545	din-en
SK3	jis	C105U This grade's own name	din-en
SK3 / SK4 przybliż.	jis	C105W1 This grade's own name	din-en
SK4	jis		
SUP4	jis		
Poland	5	Italy	3
N10	pn	C100KU	uni
N10E	pn	C120KU	uni
N11	pn	C36KU	uni
N11E	pn	International	2
stal węglowa	pn	C105U	iso
		CT105	iso
United Kingdom	4	China	2
O60A96	bs	T10	gb
BW1A	bs	T10A	gb
BW1B	bs		
BW2	bs	Sweden	2
Spain	4	1880	ss
C102	une	2900	ss
F.5118	une		
F.515	une	Romania	2
F.516	une	OSC10	stas
		OSC11	stas
Hungary	4	Austria	2
S101	msz	BOHLERK990	onorm
S102	msz	K990	onorm
S111	msz		
S112	msz	Czechia	1
Bulgaria	4	19191	csn
C105U	bds	Slovakia	1
U10A	bds	19 191	stn
U11	bds		
U11A	bds	Serbia	1
		Č.1940	srps

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 S111

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

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DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026