

MATERIAL NUMBER 1.1545 · CLASS 1.1

C105U

Material no. 1.1545

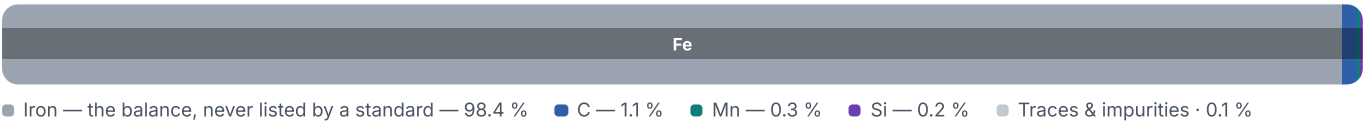
Chemical composition, mechanical and physical property values, and 67 standard designations from 19 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 67 in 19 regions	PROPERTY VALUES 8 on file
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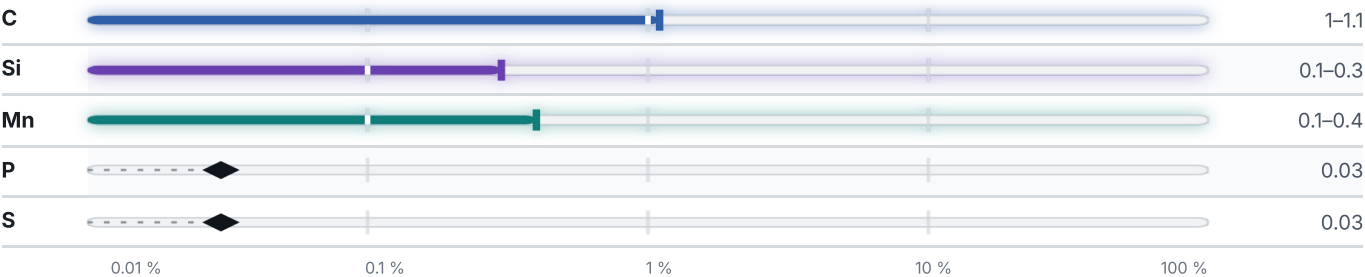
Chemical composition

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.

Mechanical properties

10 values across 3 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	HB
Rolled stock hotrolled, GOST 1414-75	410	—	22	34	—

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	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/cm³

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			
W110 przybliż		aisi-sae	France		5
W1C 1,00%	This grade's own name	aisi-sae	C105E2U		afnor
W210		aisi-sae	XC100		afnor
W5		aisi-sae	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		
N10	pn		
N10E	pn		
N11	pn		
N11E	pn		
stal węglowa	pn		
United Kingdom	4		
O60A96	bs		
BW1A	bs		
BW1B	bs		
BW2	bs		
Spain	4		
C102	une		
F.5118	une		
F.515	une		
F.516	une		
Hungary	4		
S101	msz		
S102	msz		
S111	msz		
S112	msz		
Bulgaria	4		
C105U	bds		
U10A	bds		
U11	bds		
U11A	bds		
		Italy	3
		C100KU	uni
		C120KU	uni
		C36KU	uni
		International	2
		C105U	iso
		CT105	iso
		China	2
		T10	gb
		T10A	gb
		Sweden	2
		1880	ss
		2900	ss
		Romania	2
		OSC10	stas
		OSC11	stas
		Austria	2
		BOHLERK990	onorm
		K990	onorm
		Czechia	1
		19191	csn
		Slovakia	1
		19 191	stn
		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 C105U

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

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026