

MATERIAL NUMBER 1.1545 · CLASS 1.1

F.516

Material no. 1.1545

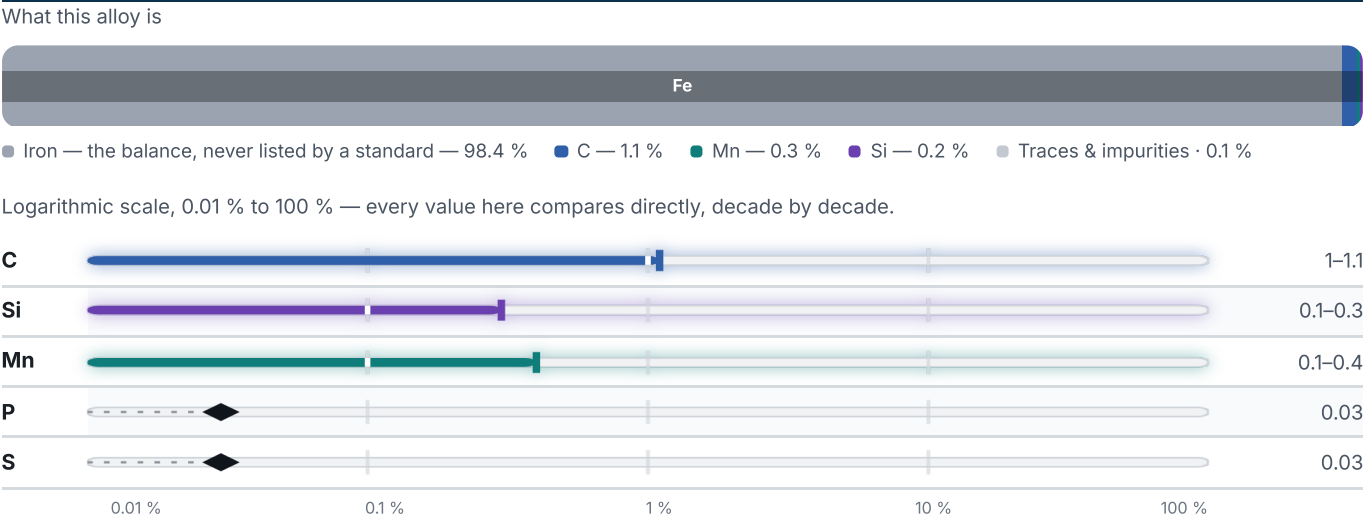
also listed as C105U

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

DENSITY 7.85 g/cm ³	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/mm ²	RE N/mm ²	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		
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	Italy	3
N10	pn	C100KU	uni
N10E	pn	C120KU	uni
N11	pn	C36KU	uni
N11E	pn		
stal węglowa	pn	International	2
		C105U	iso
		CT105	iso
United Kingdom	4	China	2
O60A96	bs	T10	gb
BW1A	bs	T10A	gb
BW1B	bs		
BW2	bs	Sweden	2
		1880	ss
Spain	4	2900	ss
C102	une		
F.5118	une	Romania	2
F.515	une	OSC10	stas
F.516	une	OSC11	stas
Hungary	4	Austria	2
S101	msz	BOHLERK990	onorm
S102	msz	K990	onorm
S111	msz		
S112	msz	Czechia	1
		19191	csn
Bulgaria	4	Slovakia	1
C105U	bds	19 191	stn
U10A	bds		
U11	bds	Serbia	1
U11A	bds	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 F.516

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026