SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.5026 · CLASS 1.5

1.5026

Chemical composition, mechanical and physical property values, and 43 standard designations from 20 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.44 g/cm³	43 in 20 regions	16 on file

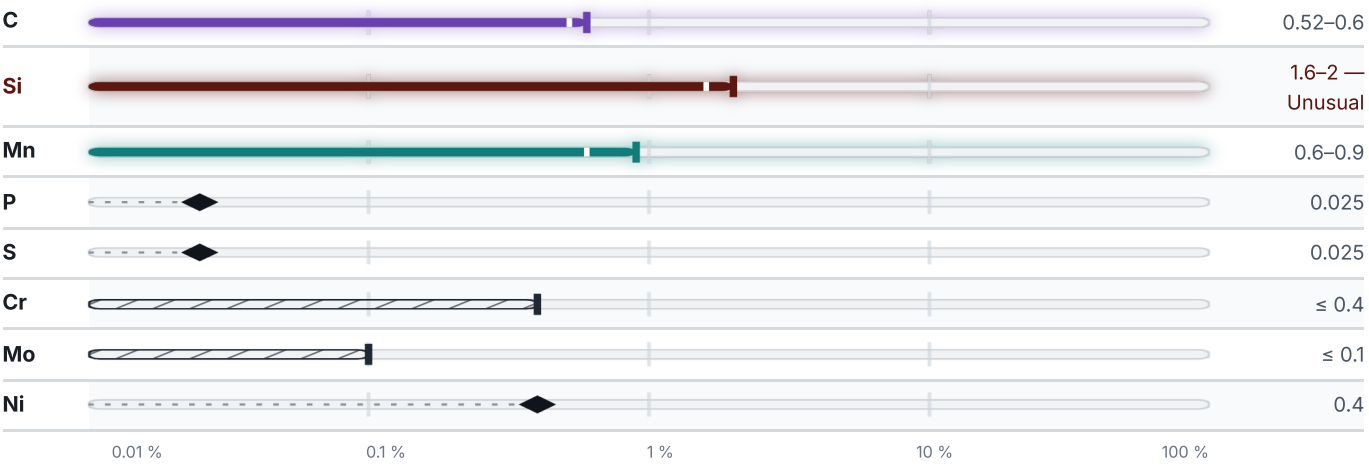
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 95.9 % · Si — 1.8 % · Mn — 0.8 % · C — 0.6 % · Traces & impurities · 1 %

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

computed from composition · °C

PREDICTED AE3	PREDICTED AE1	PREDICTED ACM	PREDICTED BS
815 °C	758 °C	713 °C	547 °C

Mechanical properties

19 values across 9 conditions

CONDITION · DIMENSION	HB
(without heat treatment) , GOST 14959	285
(heat treatment) , Rolled stock GOST 14959-79	241

SOFT ANNEALED	RM N/mm²	A80 %
0.3 – 3	740	12

QUENCHED AND TEMPERED	RM N/mm²
0.3 – 3	1200–1700

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
Annealing 750 - 780°C,Cooling oven	760	440	21	42	160

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %
Rolled stock, GOST 14959-79	1270	1175	6	30

SOFT ANNEALED	HB	HV
Soft annealed	248	230

QUENCHED AND TEMPERED	HV
Quenched and tempered	370–520

TREATED TO IMPROVE SHEARABILITY	HB
Treated to improve shearability	280

ANNEALED TO ACHIEVE SPHEROIDIZATION OF THE CARBIDES	HB
Annealed to achieve spheroidization of the carbides	230

Physical properties

8 values

CONDITION · DIMENSION	E GPa
20	196

PROPERTY	VALUE	UNIT
Density	7.44	g/cm³

PROPERTY	VALUE	UNIT
Transformation point Ac1	755	°C
Transformation point Ac3	810	°C
Transformation point Ar3	770	°C
Transformation point Ar1	690	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

43 designations · 10 documented as identical

United Kingdom — 6

250A53	bs
250A58 This grade's own name	bs
250A61 This grade's own name	bs
251A58	bs
EN 45A This grade's own name	bs
EN45 This grade's own name	bs

United States — 4

G92540	uns
G92550 This grade's own name	uns
9255 This grade's own name	aisi-sae
G92550	aisi-sae

France — 4

55S7	afnor
55Si7RR	afnor
56SC7	afnor
60Si8	afnor

Spain — 3

55Si7	une
56Si7	une
F.1440	une

Russia / CIS — 3

40C2	gost
55S2	gost
55C2	gost

Sweden — 3

2085	ss
2090	ss
SIS 14 2090 This grade's own name	ss

Poland — 3

40S2	pn
50S2	pn
55S2	pn

Europe 2

55Si7 This grade's own name	din-en
56Si7 This grade's own name	din-en

Italy 2

55Si7	uni
55Si8	uni

Czechia 2

13261	csn
13261 PH	csn

Australia / New Zealand 2

9255	as-nzs
XK9258S	as-nzs

United Kingdom / France 1

56Si7 This grade's own name	bsi-afnor

Japan 1

SUP7	jis

China 1

55Si2Mn	gb

Latin America 1

9254	copant

Serbia 1

Č.2133	srps

Hungary 1

55Si7	msz

Romania 1

56Si17A	stas

Bulgaria 1

55S2	bds

Belgium 1

55Si7	nbn

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 1.5026

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	1.5026	Aug 20, 2026