

MATERIAL NUMBER 1.1181 · CLASS 1.1

1.1181

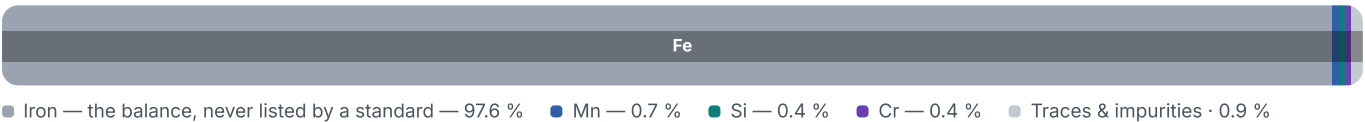
Chemical composition, mechanical and physical property values, and 36 standard designations from 20 regions.

DENSITY 7.73 g/cm³	OTHER DESIGNATIONS 36 in 20 regions	PROPERTY VALUES 9 on file
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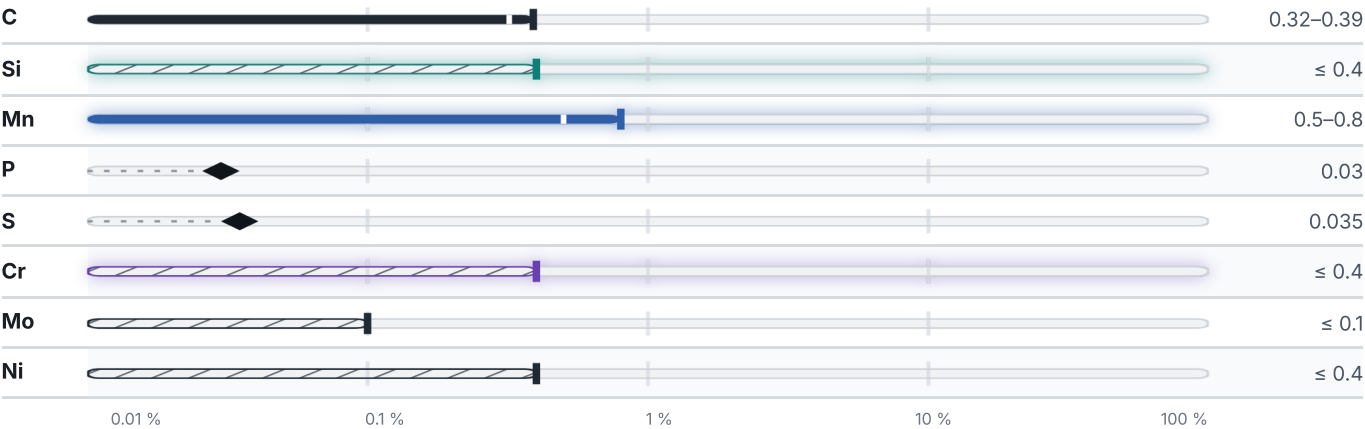
Chemical composition

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

computed from composition · °C

PREDICTED AE3 783 °C	PREDICTED AE1 724 °C	PREDICTED ACM 572 °C	PREDICTED BS 563 °C
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Mechanical properties

36 values across 8 conditions

NORMALIZED		RM N/mm ²	A %	
≤ 16		550	18	
16 – 100		520	19	
100 – 250		500	19	
250 – 500		480	–	
500 – 1000		470	–	
COLD DRAWN / HARD		RM N/mm ²	A %	
5 – 10		650–1000	6	
10 – 16		600–950	7	
16 – 40		580–880	8	
40 – 63		550–840	9	
63 – 100		520–800	9	
QUENCHED AND TEMPERED		REH N/mm ²	RM N/mm ²	A %
≤ 8		430	630	17
8 – 20		380	600	19
20 – 50		320	550	20
50 – 80		290	500	20
SOFT ANNEALED				RM N/mm ²
0.3 – 3				540
COLD ROLLED				RM N/mm ²
0.3 – 3				930
AS ROLLED AND TURNED				HB
As rolled and turned				154–207
SOFT ANNEALED		HB	HV	
Soft annealed		183	170	
COLD ROLLED		HV		
Cold rolled		275		

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³	RHO_EL nΩ·m
20	7.55	600

PROPERTY	VALUE	UNIT
Density	7.73	g/cm ³

Designations across standards

36 designations · 14 documented as identical

United States	9	Sweden	2
G10340 This grade's own name	uns	1572	ss
G10350 This grade's own name	uns	SIS 14 1572 This grade's own name	ss
G10380 This grade's own name	uns		
H10380 This grade's own name	uns	International	1
1034 This grade's own name	aisi-sae	C35E4	iso
1035 This grade's own name	aisi-sae		
1038 This grade's own name	aisi-sae	China	1
1038H This grade's own name	aisi-sae	35	gb
C1034 This grade's own name	aisi-sae		
		Italy	1
France	3	C35	uni
XC 32 This grade's own name	afnor		
XC 38H1 This grade's own name	afnor	Czechia	1
XC38	afnor	12040	csn
Europe	2	Brazil	1
C35E This grade's own name	din-en	1035	abnt
Ck 35 This grade's own name	din-en		
		Latin America	1
United Kingdom	2	1038	copant
O80M36	bs		
CFS6	bs	Slovakia	1
		12 040	stn
Spain	2		
C35k	une	Poland	1
F1130	une	35	pn
Japan	2	Türkiye	1
S35C	jis	Ç 1030	mke
S38C	jis		
		Hungary	1
Russia / CIS	2	C 35	msz
35	gost		
ct35	gost	Romania	1
		OLC35X	stas
		Finland	1
		C35	sfs

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.

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ISSUED
Aug 20, 2026