

MATERIAL NUMBER 1.0144 · CLASS 1.0

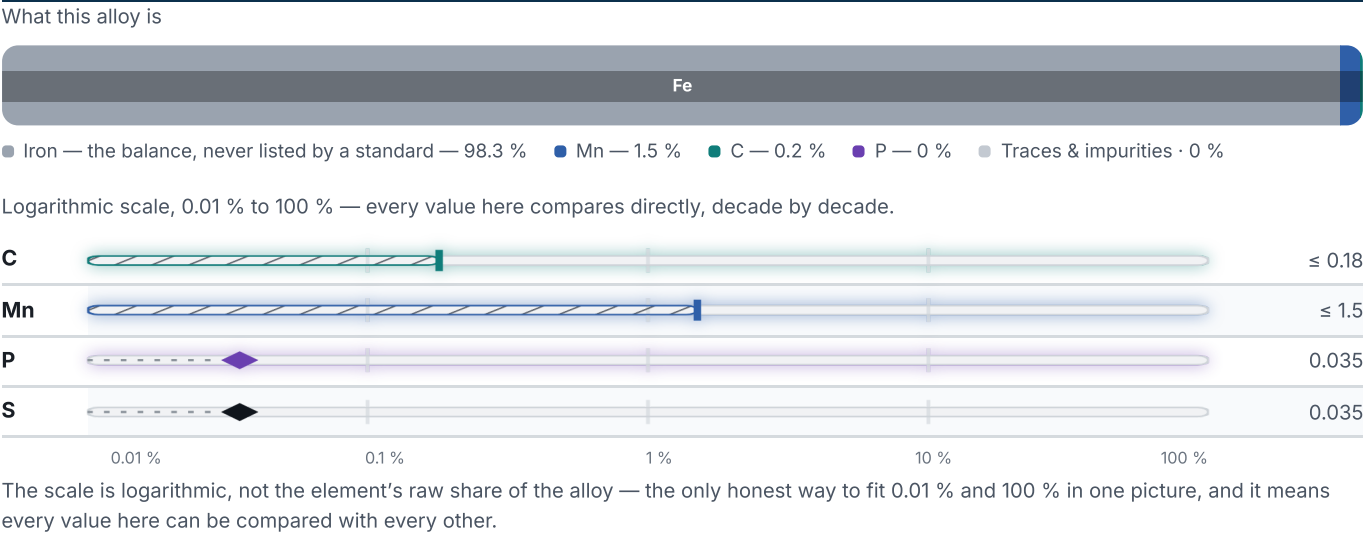
1.0144

Chemical composition, mechanical and physical property values, and 64 standard designations from 22 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 64 in 22 regions	PROPERTY VALUES 6 on file
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Chemical composition

Mass fraction in %



Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Si, Ni, Cr, Mo.

Mechanical properties

31 values across 4 conditions

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²
≤ 3	—	430–580
3 – 100	—	410–560
≤ 16	275	—

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²
16 – 40	265	–
40 – 63	255	–
63 – 80	245	–
80 – 100	235	–
100 – 150	225	400–540
150 – 250	–	380–540
150 – 200	215	–
200 – 250	205	–

CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So
≤ 1	15	–
1 – 1.5	16	–
1.5 – 2	17	–
2 – 2.5	18	–
2.5 – 3	19	–
3 – 40	–	23
40 – 63	–	22
63 – 100	–	21
100 – 150	–	19
150 – 250	–	18

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
Pipe, GOST 10705-80	412	245	21
Rolled stock, GOST 535-2005	400–510	225–255	22–25

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
Hot-rolled	400–510	195–245	18–24

Physical properties

2 values

CONDITION · DIMENSION	RHO g/cm ³
20	7.85

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	

Designations across standards

64 designations · 8 documented as identical

United States	10	Sweden	4
K02601 This grade's own name	uns	1411	ss
K02702 This grade's own name	uns	1412	ss
K03000 This grade's own name	uns	1414	ss
A572	aisi-sae	1414-00	ss
A573	aisi-sae		
A573-81	aisi-sae	International	3
A573Gr.70	aisi-sae	E275-A	iso
A611Gr.D	aisi-sae	Fe430-A	iso
A633Gr.A	aisi-sae	Fe430D	iso
K03000	aisi-sae		
Europe	9	Japan	3
1.0144	din-en	SM400A	jis
A633Gr.A	din-en	SM400B	jis
Fe430D1	din-en	SM400C	jis
S275J2 This grade's own name	din-en	Russia / CIS	3
S275J2(+N)	din-en	St4kp	gost
S275J2G3	din-en	St4ps	gost
S275J2G3C This grade's own name	din-en	Ct4kn	gost
St 44-3 N This grade's own name	din-en		
St.44.2	din-en	Czechia	3
United Kingdom	6	11 448	csn
4360 43 C	bs	11423	csn
43C	bs	11428	csn
43D	bs	France	2
Fe430D1FF	bs	E28-3	afnor
S275J2G3	bs	E28-4	afnor
S275N	bs		
Italy	4	Spain	2
Fe430B	uni	AE275D	une
Fe430C(FN)	uni	Fe430D1FF	une
Fe430D	uni		
Fe430D(FF)	uni	Poland	2
		St4SW	pn
		St4SX	pn

Bulgaria	2	Portugal	1
BSt4kp	bds	Fe430-D	np
WSt4kp	bds		
Belgium	2	China	1
AE255D	nbn	Q255	gb
FE430D1FF	nbn		
South Korea	2	Serbia	1
SM400A This grade's own name	ks	Č.0452	srps
SM400C This grade's own name	ks		
Norway	1	Romania	1
NS12-143	ns	OL42.1	stas
		Austria	1
		St430D	onorm
		Finland	1
		Fe44D	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.

Enquiry about 1.0144
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	1.0144	Aug 20, 2026