

MATERIAL NUMBER 1.0034 · CLASS 1.0

ES185

Material no. 1.0034

also listed as E195

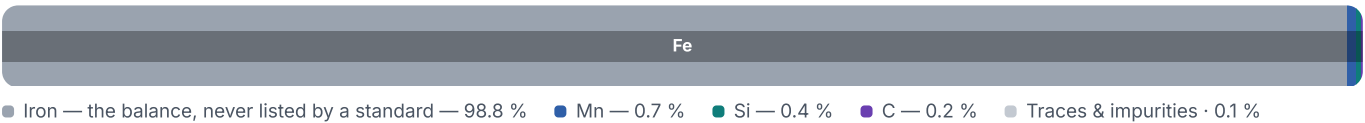
Chemical composition, mechanical and physical property values, and 32 standard designations from 12 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 32 in 12 regions	PROPERTY VALUES 9 on file
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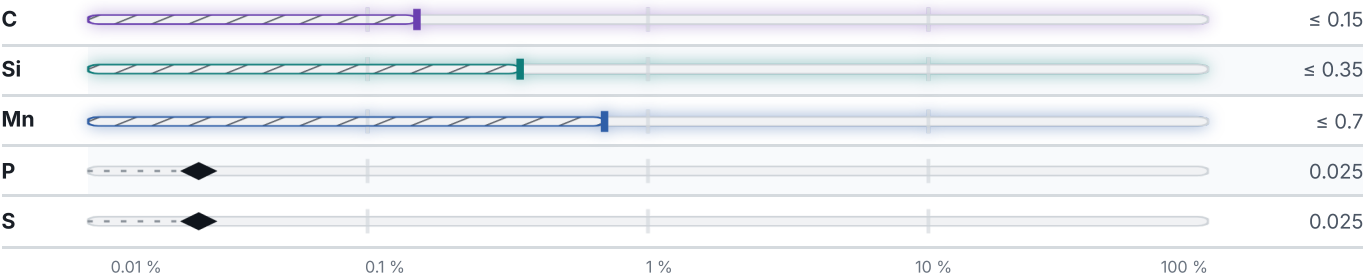
Chemical composition

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

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

Mechanical properties

14 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Pipe, GOST 8696-74	334	225	24	—

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Pipe, GOST 10705-80	333	206	24	–
Rolled stock, GOST 535-2005	335–430	195–225	29–32	–
Sheet trick, GOST 14637-89	330–430	195–225	29–32	–
Wire rods , GOST 30136-95	420–470	–	–	60

Physical properties

4 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	without limitations.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

32 designations · 5 documented as identical

United States	5	Bulgaria	4
G10080 This grade's own name	uns	ASt0	bds
K02502 This grade's own name	uns	BSt2ps	bds
1008 This grade's own name	aisi-sae	WSt2ps	bds
A192	aisi-sae	WSt2sp	bds
K02502	aisi-sae		
China	5	Russia / CIS	3
Q215	gb	St2ps	gost
Q215A	gb	St2sp	gost
Q215A-Z	gb	Cr2nc	gost
Q215B	gb		
Q215B-Z	gb	Europe	2
		E195 This grade's own name	din-en
		RSt 34-2 This grade's own name	din-en
United Kingdom	4		
34/20HR	bs	France	2
CEW2	bs	ES185	afnor
ERW2	bs	TS-30a	afnor
S360	bs		

Japan	2	Poland	1
SS330	jis	St0S	pn
SS34	jis		
Czechia	2	Hungary	1
10000	csn	Fe3100	msz
11342	csn	Romania	1
		OL34.1	stas

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 ES185

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	1.0034	Aug 20, 2026