

MATERIAL NUMBER 1.0034 · CLASS 1.0

34/20HR

Material no. 1.0034

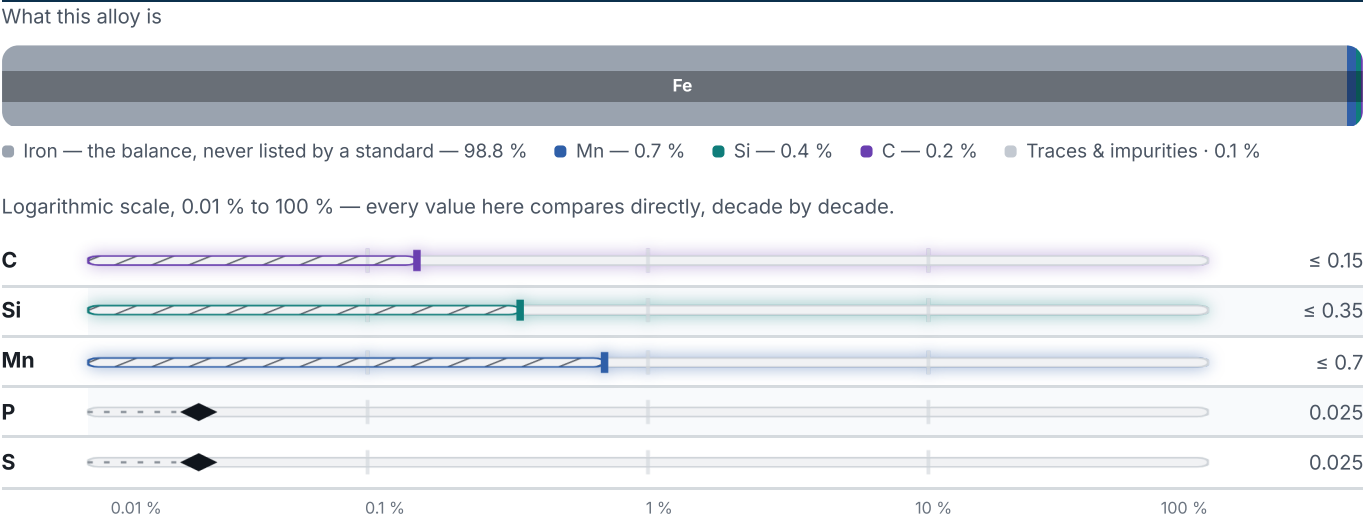
also listed as E195

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 %



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	Russia / CIS		3
China		5	St2ps		gost
Q215		gb	St2sp		gost
Q215A		gb	Cr2nc		gost
Q215A-Z		gb	Europe		2
Q215B		gb	E195	This grade's own name	din-en
Q215B-Z		gb	RSt 34-2	This grade's own name	din-en
United Kingdom		4	France		2
34/20HR		bs	ES185		afnor
CEW2		bs	TS-30a		afnor
ERW2		bs			
S360		bs			

Japan	2	Poland	1
SS330	jis	St0S	pn
SS34	jis		
Czechia	2	Hungary	1
10000	csn	Fe310O	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 34/20HR

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

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026