SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0028 · CLASS 1.0

Ust 34-2

Material no. 1.0028

also listed as S205G1T

Chemical composition, mechanical and physical property values, and 93 standard designations from 19 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	93 in 19 regions	7 on file

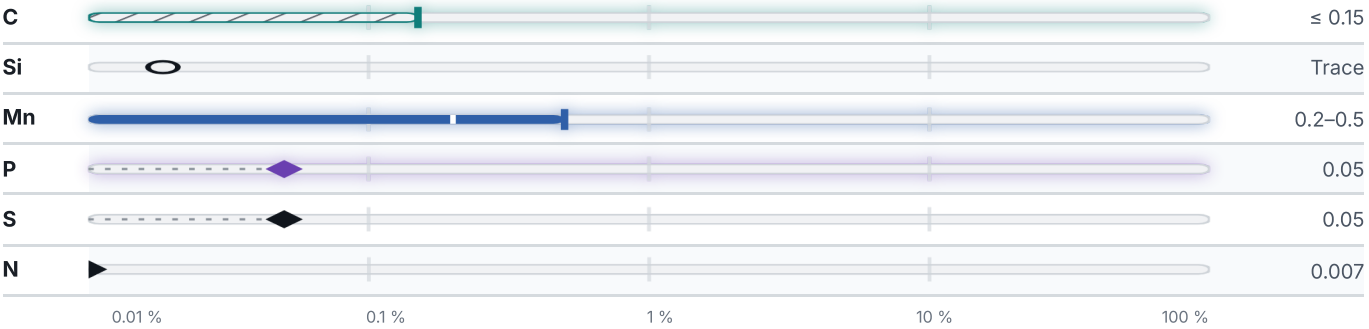
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 99.4 % · Mn — 0.4 % · C — 0.2 % · P — 0.1 % · Traces & impurities · 0.1 %

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

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

Mechanical properties

6 values across 2 conditions

AS-DELIVERED STATE	RM N/mm²	RE N/mm²	A5 %
4 - 20	365–490	235	26

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
Hot-rolled	330–430	165–205	21–28

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

93 designations · 3 documented as identical

United States (15)

A284Gr.D	aisi-sae
A570Gr.33	aisi-sae
A570Gr.33,36	aisi-sae
A570Gr.36	aisi-sae
A573Gr.58	aisi-sae
A611(A)	aisi-sae
A611Gr.C	aisi-sae
Gr.C	aisi-sae
K01804	aisi-sae
K02001	aisi-sae
K02301	aisi-sae
K02502	aisi-sae
K02601	aisi-sae
K02701	aisi-sae
K02702	aisi-sae

Italy (12)

Fe330	uni
Fe360B	uni
Fe360BFU	uni
Fe360C	uni
Fe360CFN	uni
Fe360D	uni
Fe360DFF	uni
Fe37-2	uni
S235J0	uni
S235J2G3	uni
S235J2G4	uni
S235JRG1	uni

United Kingdom (10)

1449-37/23CR	bs
37/23HR	bs
4360-40D	bs
CEW2BK	bs
Fe360B	bs
Fe360D1FF	bs
HFS4	bs
HFW4	bs
S235J2G3	bs
S235JRG1	bs

China (8)

A3	gb
Q235	gb
Q235A	gb
Q235A-F	gb
Q235A-Z	gb
Q235B	gb
Q235B-F	gb
Q235B-Z	gb

France (7)

A34-2	afnor
E24-3	afnor
E24-4	afnor
S235J0	afnor
S235J2G3	afnor
S235J2G4	afnor
S235JRG1	afnor

Spain 7

AE235B	une
AE235B-FU	une
AE235D	une
Fe360D1FF	une
S235J2G3	une
S235JR	une
S235JRG1	une

Russia / CIS 6

16D	gost
16Д	gost
16Д-Ш	gost
18kp	gost
18кп	gost
St3kp	gost

Bulgaria 5

BSt3kp	bds
Ew-08AA	bds
S235J2G3	bds
S235JRG1	bds
WSt3kp	bds

Hungary 4

Fe235B/FU	msz
Fe235D	msz
S235J2G3	msz
S235JRG1	msz

Sweden 3

1311	ss
1312	ss
1313	ss

Czechia 3

11343	csn
11373	csn
11378	csn

Europe 2

S205G1T This grade's own name	din-en
Ust 34-2 This grade's own name	din-en

Japan 2

SS330	jis
STKM12A	jis

Poland 2

St3SX	pn
St3W	pn

Austria 2

St34RG	onorm
St37TK	onorm

Belgium 2

FE360B	nbn
FED1FF	nbn

Romania 1

OL37.4	stas

Finland 1

RACOLD215S	sfs

South Korea 1

SS330 This grade's own name	ks

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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.0028	Aug 20, 2026