SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0225 · CLASS 1.0

E275

Material no. 1.0225

Chemical composition, mechanical and physical property values, and 7 standard designations from 3 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	7 in 3 regions	6 on file

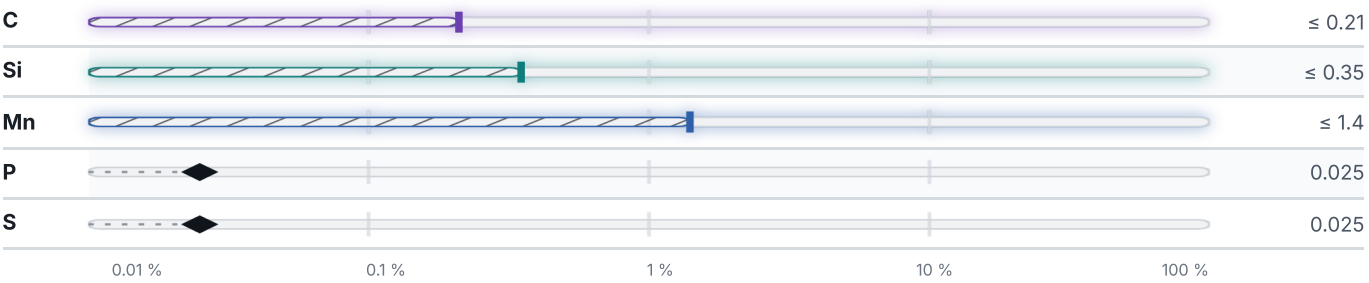
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 98 % · Mn — 1.4 % · Si — 0.4 % · C — 0.2 % · Traces & impurities · 0 %

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

9 values across 1 conditions

AS ROLLED	REH N/mm²	RM N/mm²
≤ 16	275	410

AS ROLLED	REH N/mm²	RM N/mm²
16 – 40	265	410
40 – 65	255	410
65 – 100	–	380
65 – 80	245	–
80 – 100	235	–

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

7 designations · 2 documented as identical

United Kingdom 3

CEW4	bs
ERW3	bs
ERW4	bs

Europe 2

E275 This grade's own name	din-en
St 44-2 This grade's own name	din-en

France 2

ES275	afnor
TS-42a	afnor

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 E275

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	1.0225	Aug 20, 2026