SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0736 · CLASS 1.0

SUM25

Material no. 1.0736

also listed as 11 SMn 37

Chemical composition, mechanical and physical property values, and 23 standard designations from 11 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	23 in 11 regions	6 on file

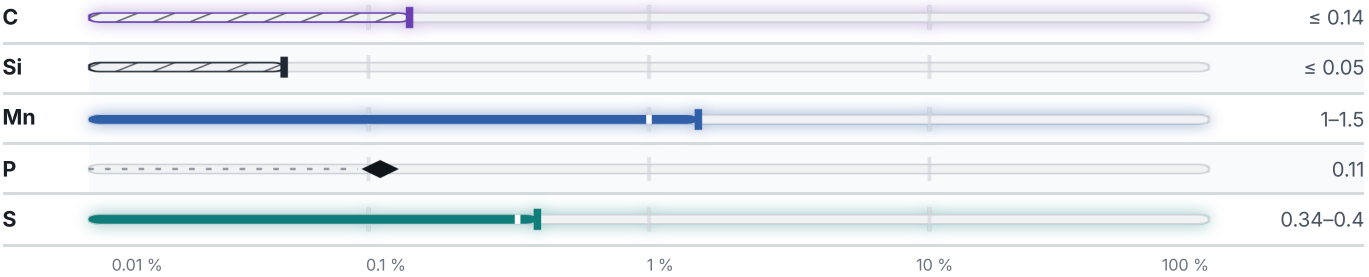
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 98.1 % · Mn — 1.3 % · S — 0.4 % · C — 0.1 % · Traces & impurities · 0.2 %

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

11 values across 2 conditions

COLD DRAWN / HARD	RM N/mm²	A %
5 – 10	510–810	6

COLD DRAWN / HARD	RM N/mm²	A %
10 – 16	490–760	7
16 – 40	460–710	8
40 – 63	400–650	9
63 – 100	360–630	9

AS ROLLED AND TURNED	HB
As rolled and turned	107–169

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

23 designations · 6 documented as identical

United Kingdom (6)

1B	bs
230M07	bs
240M07	bs
240M07EN	bs
240M07EN 1B	bs
EN1B	bs

Europe (3)

1.0736	din-en
11 SMn 37 This grade's own name	din-en
9 SMn 36 This grade's own name	din-en

Spain (3)

12SMn35	une
F.2113	une
F.2113-12 SMn 35	une

Japan (3)

12SMn35 This grade's own name	jis
SUM23	jis
SUM25	jis

United States (2)

G12150 This grade's own name	uns
1215 This grade's own name	aisi-sae

France (1)

S300	afnor

China (1)

Y13	gb

Russia / CIS (1)

A12	gost

Italy (1)

CF9SMn36	uni

Latin America (1)

1215	copant

South Korea (1)

SUM25 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.

Enquiry about SUM25

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	1.0736	Aug 20, 2026