

MATERIAL NUMBER 1.0736 · CLASS 1.0

12SMn35

Material no. 1.0736

also listed as 11 SMn 37

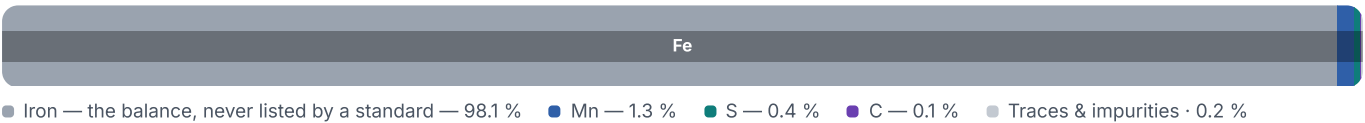
Chemical composition, mechanical and physical property values, and 23 standard designations from 11 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 23 in 11 regions	PROPERTY VALUES 6 on file
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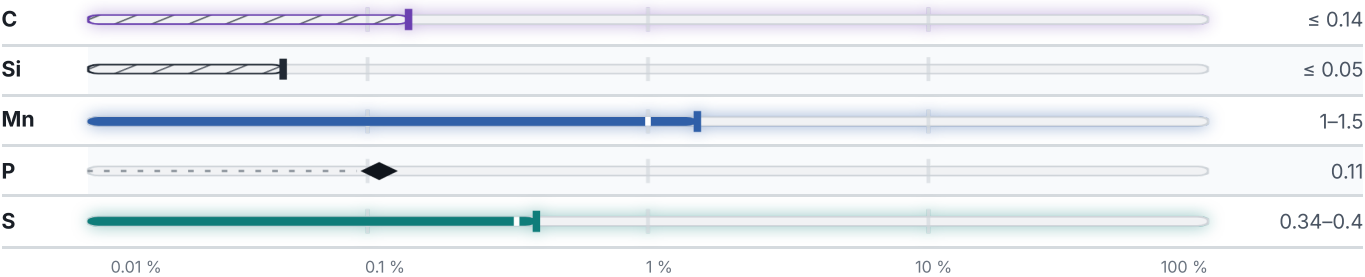
Chemical composition

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

11 values across 2 conditions

COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	510–810	6

COLD DRAWN / HARD	RM N/mm ²	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/cm ³

Designations across standards

23 designations · 6 documented as identical

United Kingdom		6	United States		2
1B	bs		G12150	This grade's own name	uns
230M07	bs		1215	This grade's own name	aisi-sae
240M07	bs		France		1
240M07EN	bs		S300		afnor
240M07EN 1B	bs		China		1
EN1B	bs		Y13		gb
Europe		3	Russia / CIS		1
1.0736	din-en		A12		gost
11 SMn 37	This grade's own name	din-en	Italy		1
9 SMn 36	This grade's own name	din-en	CF9SMn36		uni
Spain		3	Latin America		1
12SMn35	une		1215		copant
F.2113	une		South Korea		1
F.2113-12 SMn 35	une		SUM25		ks
Japan		3			
12SMn35	This grade's own name	jis			
SUM23	jis				
SUM25	jis				

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 12SMn35

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026