

MATERIAL NUMBER 1.0736 · CLASS 1.0

Y13

Material no. 1.0736

also listed as 11 SMn 37

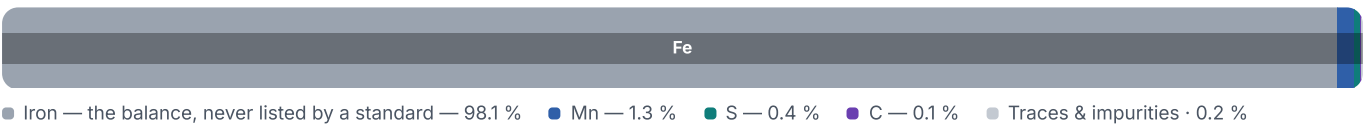
Chemical composition, mechanical and physical property values, and 23 standard designations from 11 regions.

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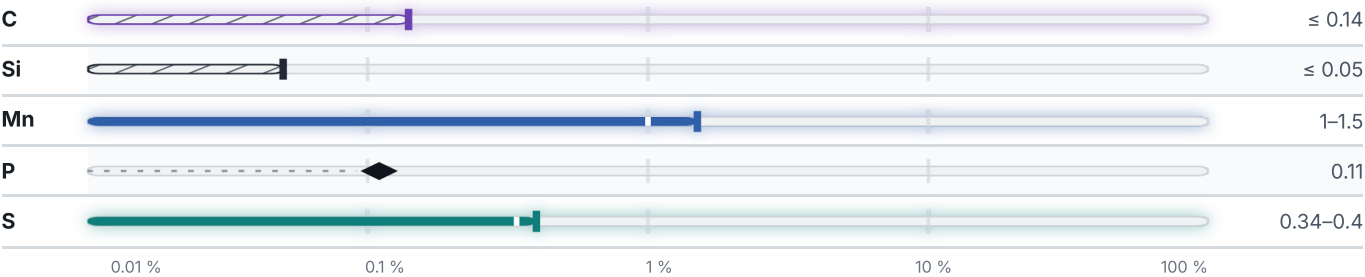
Chemical composition

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

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