

MATERIAL NUMBER 1.0715 · CLASS 1.0

SUM23

Material no. 1.0715

also listed as 11 SMn 30

Chemical composition, mechanical and physical property values, and 27 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 27 in 14 regions	PROPERTY VALUES 6 on file
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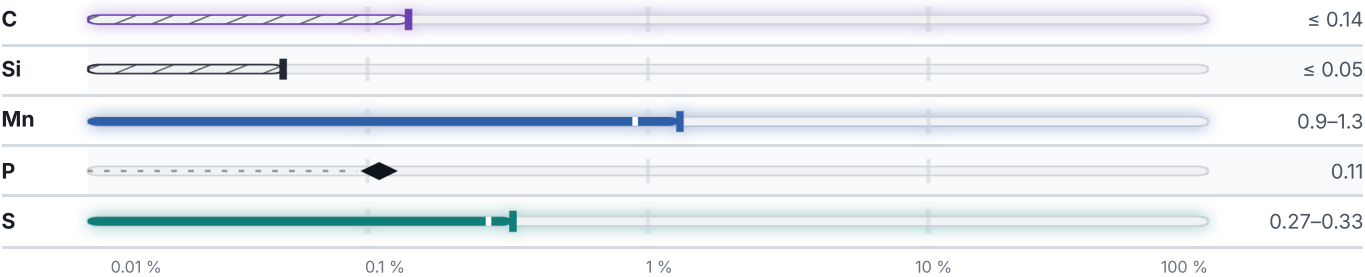
Chemical composition

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

10 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	–
40 – 100	–	9
63 – 100	360–630	–
AS ROLLED AND TURNED		HB
As rolled and turned		107–169

Physical properties

1 values

CONDITION · DIMENSION	RHO g/cm ³	RHO_EL nΩ·m
20	7.8	250

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

27 designations · 9 documented as identical

United States	4	Spain	3
G12130 This grade's own name	uns	11SMn28	une
G12150 This grade's own name	uns	F.2111	une
1213 This grade's own name	aisi-sae	F.2111-11SMn28	une
1215 This grade's own name	aisi-sae		
Japan	4	South Korea	2
11SMn28 This grade's own name	jis	SUM22 This grade's own name	ks
SUM 21	jis	SUM23 This grade's own name	ks
SUM22	jis		
SUM23	jis	France	1
		S250	afnor
Europe	3	China	1
1.0715	din-en	Y15	gb
11 SMn 30 This grade's own name	din-en		
9 SMn 28 This grade's own name	din-en	Italy	1
		CF9SMn28	uni
United Kingdom	3	Sweden	1
1A	bs	1912	ss
230M07	bs		
EN1A	bs	Czechia	1
		11109	csn

Slovakia	1	Serbia	1
11 109	stn	Č.3990	srps
Latin America	1		
1213	copant		

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 SUM23
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	1.0715	Aug 20, 2026