

MATERIAL NUMBER 1.0715 · CLASS 1.0

1.0715

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

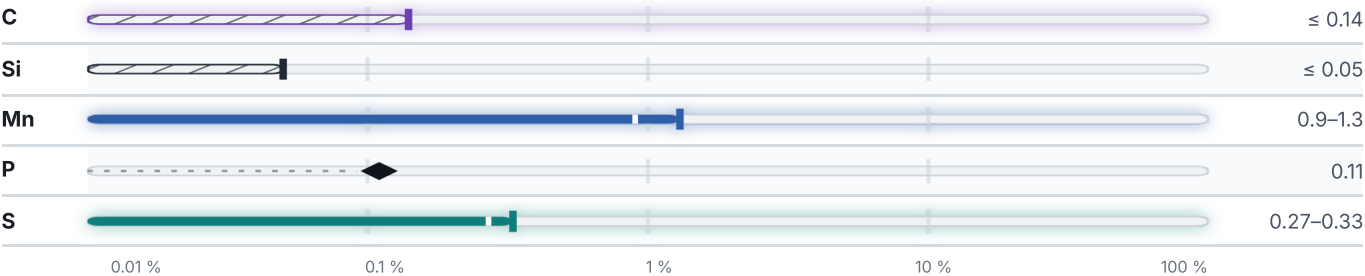
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.3 % ● Mn — 1.1 % ● S — 0.3 % ● 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

10 values across 2 conditions

COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	510–810	6
10 – 16	490–760	7

COLD DRAWN / HARD	RM N/mm²	A %
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/cm³	RHO_EL nΩ·m
20	7.8	250
PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

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	France		1
SUM23		jis	S250		afnor
Europe		3	China		1
1.0715		din-en	Y15		gb
11 SMn 30	This grade's own name	din-en	Italy		1
9 SMn 28	This grade's own name	din-en	CF9SMn28		uni
United Kingdom		3	Sweden		1
1A		bs	1912		ss
230M07		bs	Czechia		1
EN1A		bs	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 1.0715
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