

MATERIAL NUMBER 1.0718 · CLASS 1.0

1.0718

Chemical composition, mechanical and physical property values, and 21 standard designations from 11 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 21 in 11 regions	PROPERTY VALUES 7 on file
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Chemical composition

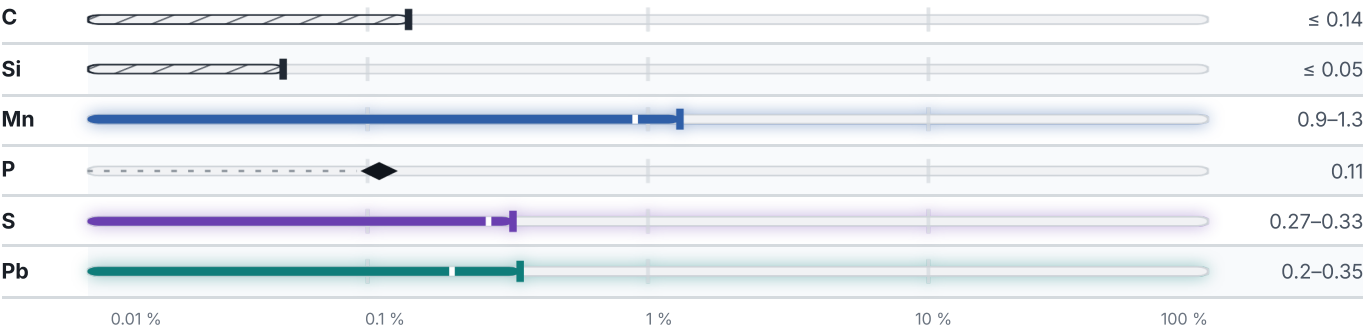
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98 % ● Mn — 1.1 % ● S — 0.3 % ● Pb — 0.3 % ● Traces & impurities · 0.3 %

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
10 – 16	490–760	7

COLD DRAWN / HARD	RM N/mm²	A %
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

21 designations · 9 documented as identical

United States		4	South Korea		2	
G12134	This grade's own name	uns	SUM22L	This grade's own name	ks	
G12144	This grade's own name	uns	SUM24L	This grade's own name	ks	
12L13	This grade's own name	aisi-sae	France			1
12L14	This grade's own name	aisi-sae	S250Pb			afnor
Europe		3	International			1
1.0718		din-en	11MnPb28			iso
11 SMnPb 30	This grade's own name	din-en	China			1
9 SMnPb 28	This grade's own name	din-en	Y15Pb			gb
Spain		3	Italy			1
11SMnPb28		une	CF9SMnPb28			uni
F.2112		une	Sweden			1
F.2112-11SMnPb28		une	1914			ss
Japan		3	Poland			1
11SMnPb28	This grade's own name	jis	A10X			pn
SUM22L		jis				
SUM24L		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 1.0718

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

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ISSUED

Aug 20, 2026