

MATERIAL NUMBER 1.0711 · CLASS 1.0

SUM21

Material no. 1.0711

also listed as 10 S 10

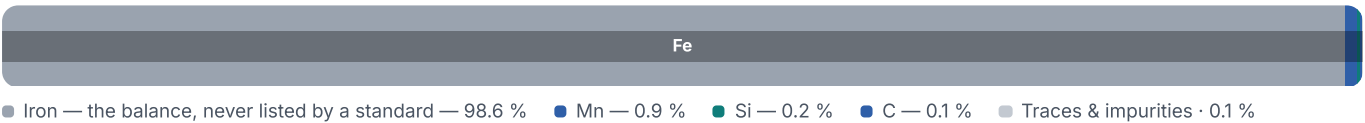
Chemical composition, mechanical and physical property values, and 9 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 9 in 6 regions	PROPERTY VALUES 6 on file
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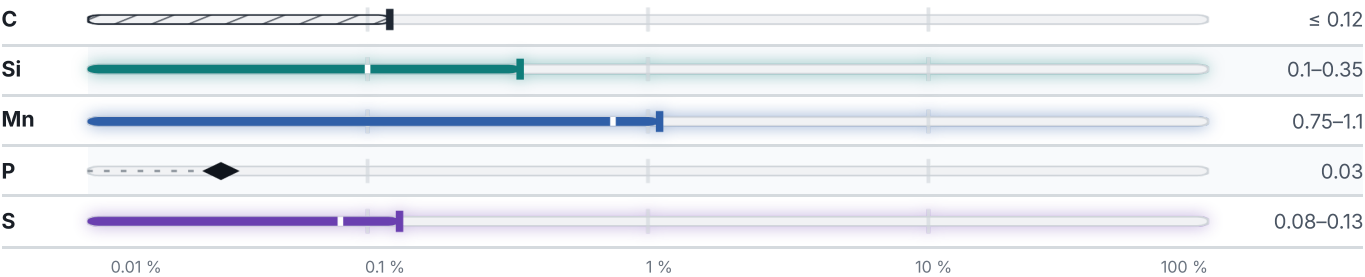
Chemical composition

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.

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

9 designations · 6 documented as identical

United States	3	Europe	1
G12120 This grade's own name	uns	10 S 10 This grade's own name	din-en
1212 This grade's own name	aisi-sae		
B1112 This grade's own name	aisi-sae	United Kingdom	1
		220M07	bs
Japan	2		
9S20 This grade's own name	jis	France	1
SUM21	jis	S100	afnor
		South Korea	1
		SUM21 This grade's own name	ks

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 SUM21

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	1.0711	Aug 20, 2026