

MATERIAL NUMBER 1.0711 · CLASS 1.0

9S20

Material no. 1.0711

also listed as 10 S 10

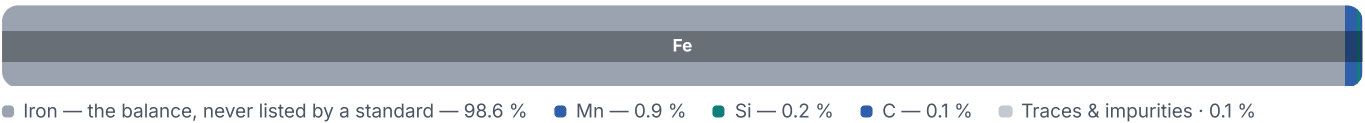
Chemical composition, mechanical and physical property values, and 9 standard designations from 6 regions.

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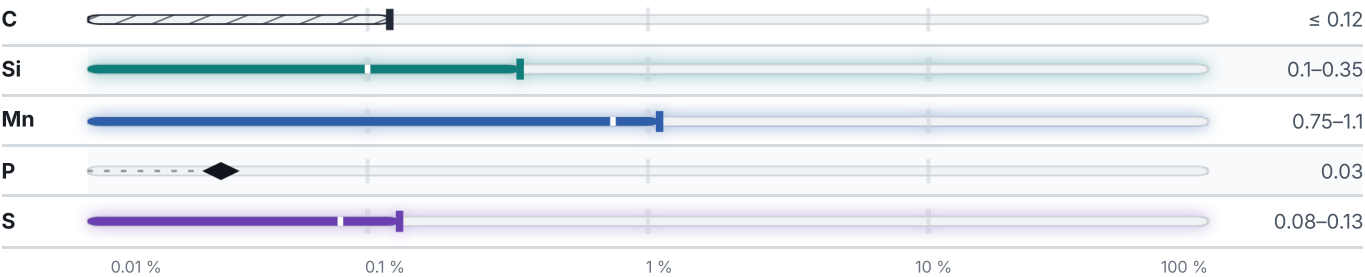
Chemical composition

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	United Kingdom		
B1112	This grade's own name	aisi-sae	220M07		
Japan		2	France		
9S20	This grade's own name	jis	S100		
SUM21		jis	South Korea		
			SUM21		

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 9S20

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