

MATERIAL NUMBER 1.0710 · CLASS 1.0

SUM31

Material no. 1.0710

also listed as 15 S 10

Chemical composition, mechanical and physical property values, and 7 standard designations from 5 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

7 in 5 regions

PROPERTY VALUES

6 on file

Chemical composition

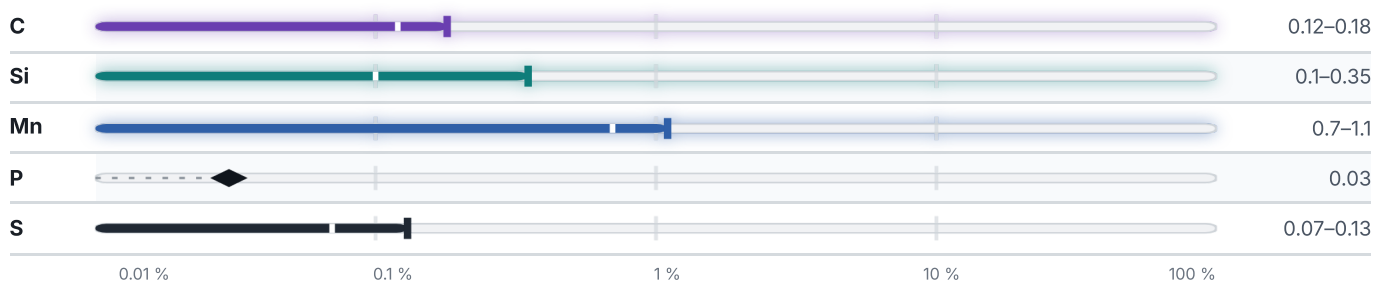
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.6 % ● Mn — 0.9 % ● Si — 0.2 % ● C — 0.2 % ● Traces & impurities · 0.1 %

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

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

7 designations · 5 documented as identical

United States		3	Japan		1
G11170	This grade's own name	uns	SUM31		jis
1115	This grade's own name	aisi-sae	Latin America		1
1117	This grade's own name	aisi-sae	1117		copant
Europe		1	South Korea		1
15 S 10	This grade's own name	din-en	SUM31	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 SUM31

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	1.0710	Aug 20, 2026