SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.1160 · CLASS 1.1

1.1160

Chemical composition, mechanical and physical property values, and 14 standard designations from 6 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	14 in 6 regions	6 on file

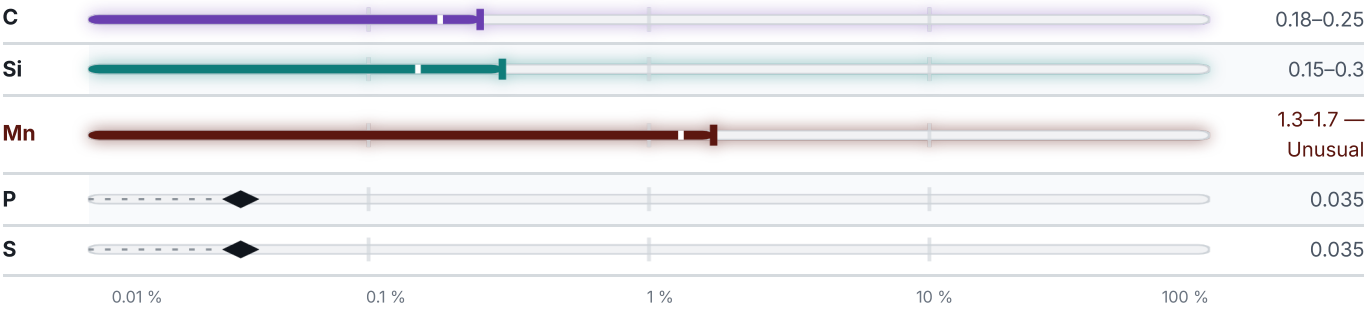
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 98 % · Mn — 1.5 % · 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.

Mechanical properties

3 values across 1 conditions

CONDITION · DIMENSION	RM N/mm²	HB
Steel cold-drawn , GOST 10702-78	490–686	–
(hot-rolled, annealing)	–	187

CONDITION · DIMENSION	RM N/mm²	HB
Bar GOST 10702-78	–	179

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

14 designations · 5 documented as identical

United States 6

G15240 This grade's own name	uns
H15240 This grade's own name	uns
1524 This grade's own name	aisi-sae
1524H This grade's own name	aisi-sae
G15240	aisi-sae
H15240	aisi-sae

Japan 2

SMn420	jis
SMn420H	jis

Russia / CIS 2

20G2	gost
20Г2	gost

South Korea 2

SMn420	ks
SMn420H	ks

Europe 1

22Mn6 This grade's own name	din-en

Spain 1

F.120L	une

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 1.1160

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	1.1160	Aug 20, 2026