SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.2162 · CLASS 1.2

1.2162

Chemical composition, mechanical and physical property values, and 17 standard designations from 8 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	17 in 8 regions	7 on file

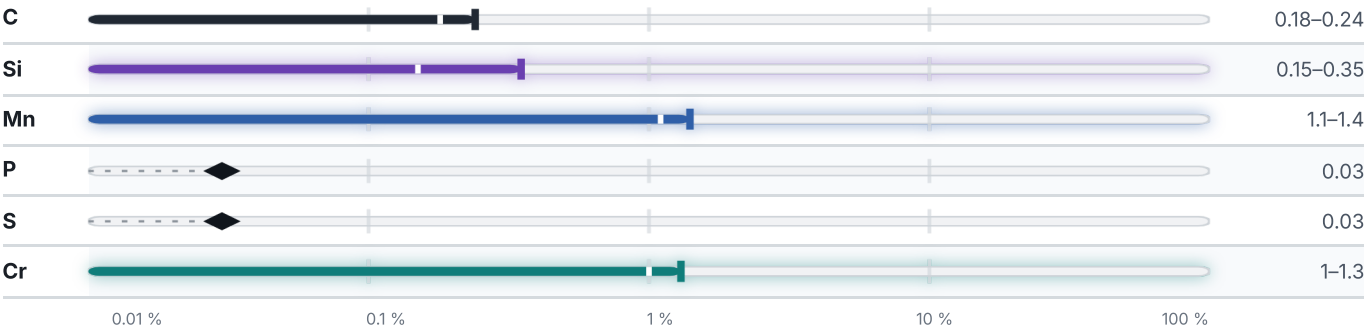
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 97.1 % · Mn — 1.3 % · Cr — 1.2 % · Si — 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, Mo.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	217

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

17 designations · 1 documented as identical

International (5)

16MnCr5	iso
16MnCrS5	iso
20MnCr5	iso
20MnCrS5	iso
21MnCr5	iso

United States (2)

G51150	uns
G51200	uns

France (2)

16MC5	afnor
20MC5	afnor

Czechia (2)

14221	csn
19487	csn

Slovakia (2)

14 221	stn
19 487	stn

Poland (2)

16HG	pn
20HG	pn

Europe (1)

21MnCr5 This grade's own name	din-en

Russia / CIS (1)

18ChG	gost

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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.2162	Aug 20, 2026