SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.6543 · CLASS 1.6

G86220

Material no. 1.6543

also listed as 21 NiCrMo 2 2

Chemical composition, mechanical and physical property values, and 18 standard designations from 3 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	18 in 3 regions	9 on file

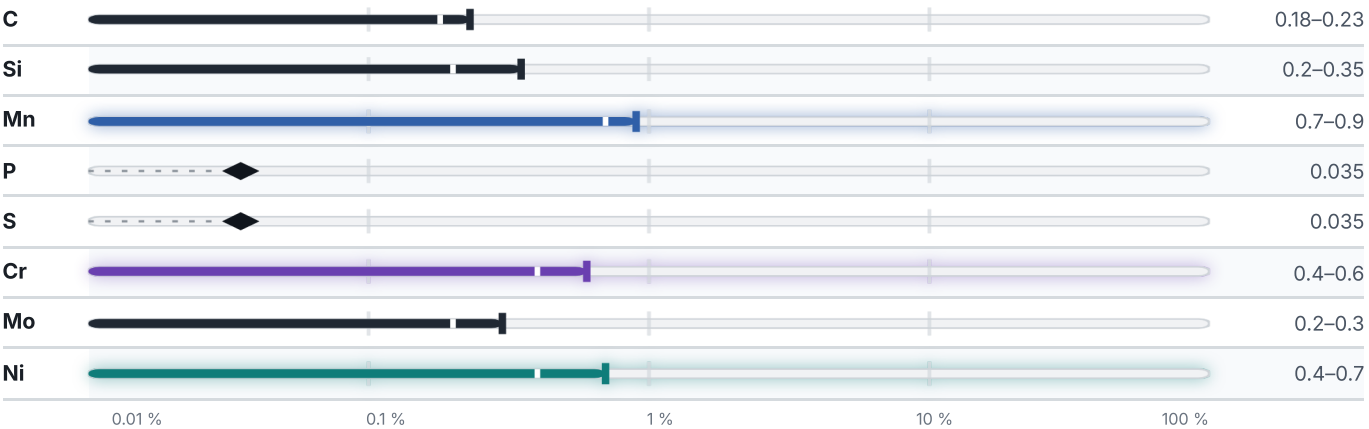
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 97.4 % · Mn — 0.8 % · Ni — 0.6 % · Cr — 0.5 % · Traces & impurities · 0.8 %

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

computed from composition · °C

PREDICTED AE3	PREDICTED AE1	PREDICTED ACM	PREDICTED BS
803 °C	722 °C	466 °C	549 °C

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

18 designations · 17 documented as identical

United States 16

G86220 This grade's own name	uns
G87200 This grade's own name	uns
G88200 This grade's own name	uns
H86220 This grade's own name	uns
H87200 This grade's own name	uns
H88200 This grade's own name	uns
8622 This grade's own name	aisi-sae
8622H This grade's own name	aisi-sae
8622RH This grade's own name	aisi-sae
8719 This grade's own name	aisi-sae
8720 This grade's own name	aisi-sae
8720H This grade's own name	aisi-sae
8720RH This grade's own name	aisi-sae
8822 This grade's own name	aisi-sae
8822H This grade's own name	aisi-sae
8822RH This grade's own name	aisi-sae

Europe 1

21 NiCrMo 2 2 This grade's own name	din-en

Poland 1

22HNM	pn

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	1.6543	Aug 20, 2026