

MATERIAL NUMBER 1.6217 · CLASS 1.6

0.5Ni355

Material no. 1.6217

also listed as 13MnNi6-3

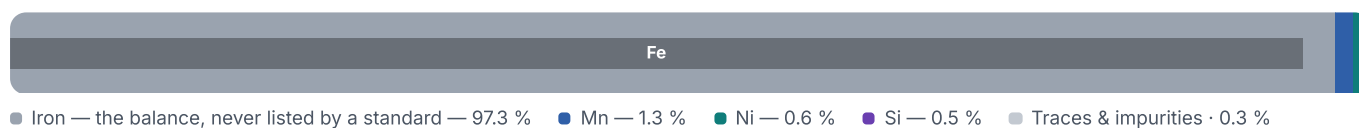
Chemical composition, mechanical and physical property values, and 3 standard designations from 3 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	3 in 3 regions	10 on file

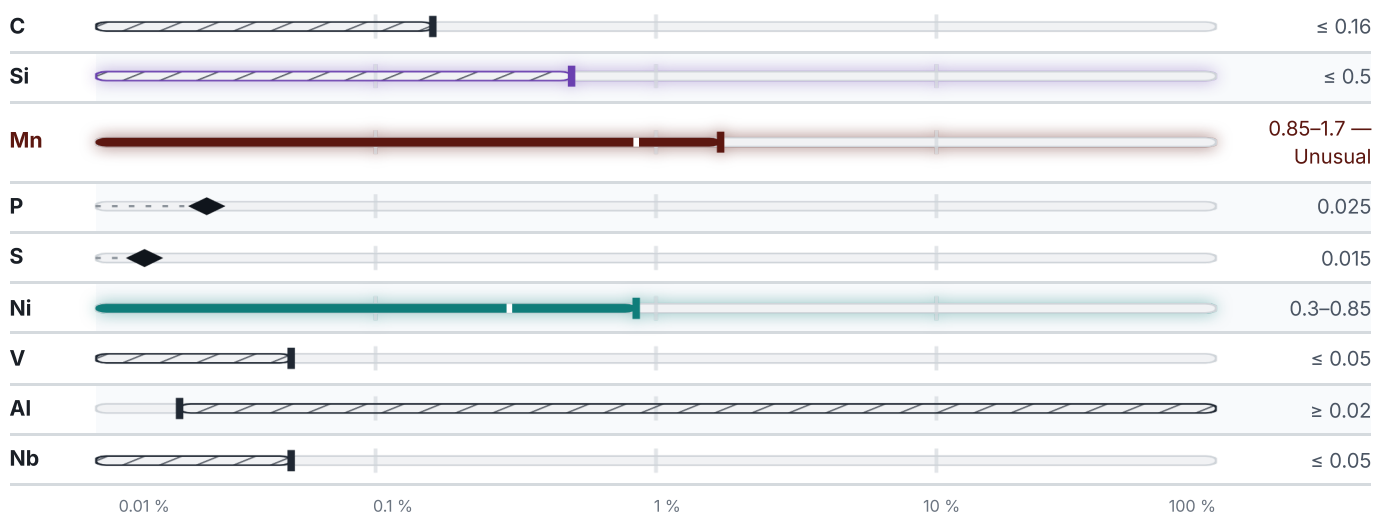
Chemical composition

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: Cr, Mo.

Mechanical properties

8 values across 2 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²	A %
≤ 30	355	–	–
30 – 50	345	–	–
50 – 80	335	–	–
≤ 80	–	490–610	22
NORMALIZED AND TEMPERED			REH N/mm ²
≤ 35			285
35 – 50			275
50 – 70			265

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

3 designations · 1 documented as identical

Europe	1	France	1
13MnNi6-3	This grade's own name din-en	0.5Ni355	afnor
United States	1		
K13050	uns		

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 0.5Ni355

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026