SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.1127 · CLASS 1.1

1.1127

Chemical composition, mechanical and physical property values, and 10 standard designations from 6 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	10 in 6 regions	9 on file

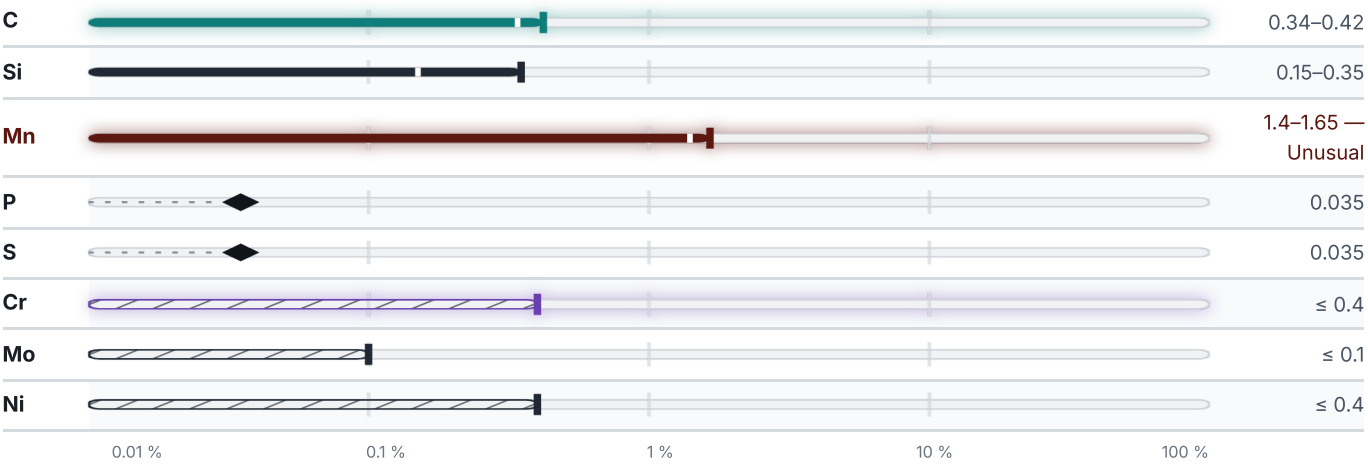
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 96.9 % · Mn — 1.5 % · Cr — 0.4 % · Ni — 0.4 % · 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
764 °C	711 °C	597 °C	531 °C

Mechanical properties

19 values across 3 conditions

QUENCHED AND TEMPERED	REH N/mm²	RM N/mm²	A %
≤ 8	620	850	13
8 – 20	570	750	14
20 – 50	470	650	15
50 – 80	400	550	16

NORMALIZED	REH N/mm²	RM N/mm²
≤ 16	400	670
16 – 40	380	620
40 – 80	360	570

SOFT ANNEALED	HB
Soft annealed	223

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

10 designations · 4 documented as identical

Europe 2

36Mn6 This grade's own name	din-en
38Mn6 This grade's own name	din-en

United States 2

G15410 This grade's own name	uns
1541 This grade's own name	aisi-sae

Japan 2

SMn438	jis
SMn443	jis

China 2

35Mn2	gb
40Mn2	gb

United Kingdom 1

150M36	bs

International 1

42Mn6	iso

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 1.1127

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	1.1127	Aug 20, 2026