

MATERIAL NUMBER 1.1127 · CLASS 1.1

38Mn6

Material no. 1.1127

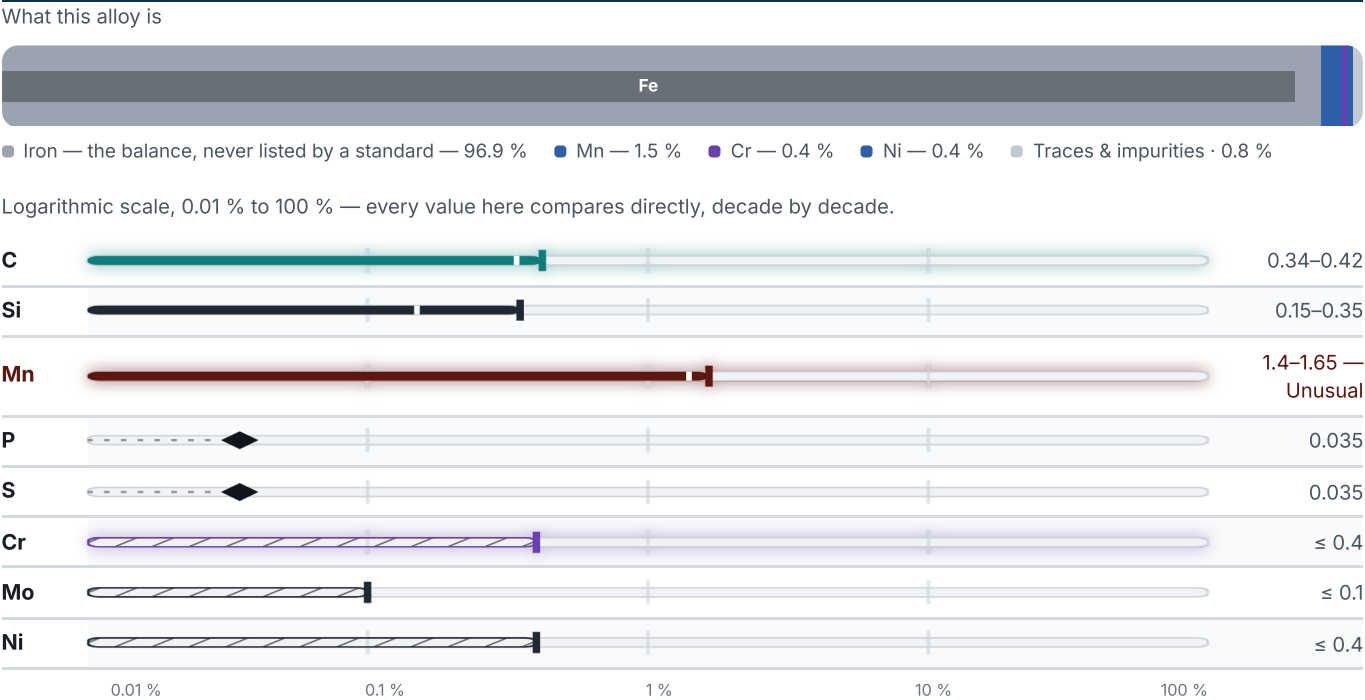
also listed as 36Mn6

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

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

Mass fraction in %



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 764 °C	PREDICTED AE1 711 °C	PREDICTED ACM 597 °C	PREDICTED BS 531 °C
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Mechanical properties

19 values across 3 conditions

QUENCHED AND TEMPERED	REH N/mm ²	RM N/mm ²	A %
≤ 8	620	850	13
8 – 20	570	750	14
20 – 50	470	650	15
50 – 80	400	550	16
NORMALIZED	REH N/mm ²	RM N/mm ²	
≤ 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/cm ³

Designations across standards

10 designations · 4 documented as identical

Europe	2	China	2
36Mn6 This grade's own name	din-en	35Mn2	gb
38Mn6 This grade's own name	din-en	40Mn2	gb
United States	2	United Kingdom	1
G15410 This grade's own name	uns	150M36	bs
1541 This grade's own name	aisi-sae	International	1
Japan	2	42Mn6	iso
SMn438	jis		
SMn443	jis		

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 38Mn6

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

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026