

MATERIAL NUMBER 1.0539 · CLASS 1.0

K02705

Material no. 1.0539

also listed as S355NH

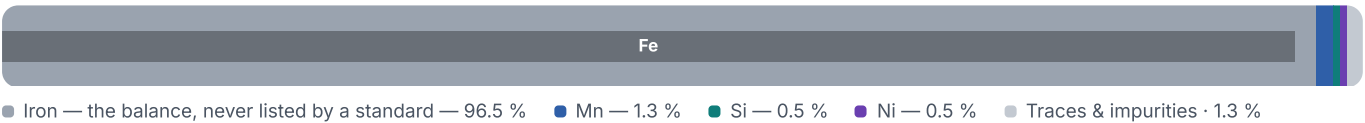
Chemical composition, mechanical and physical property values, and 7 standard designations from 2 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 7 in 2 regions	PROPERTY VALUES 15 on file
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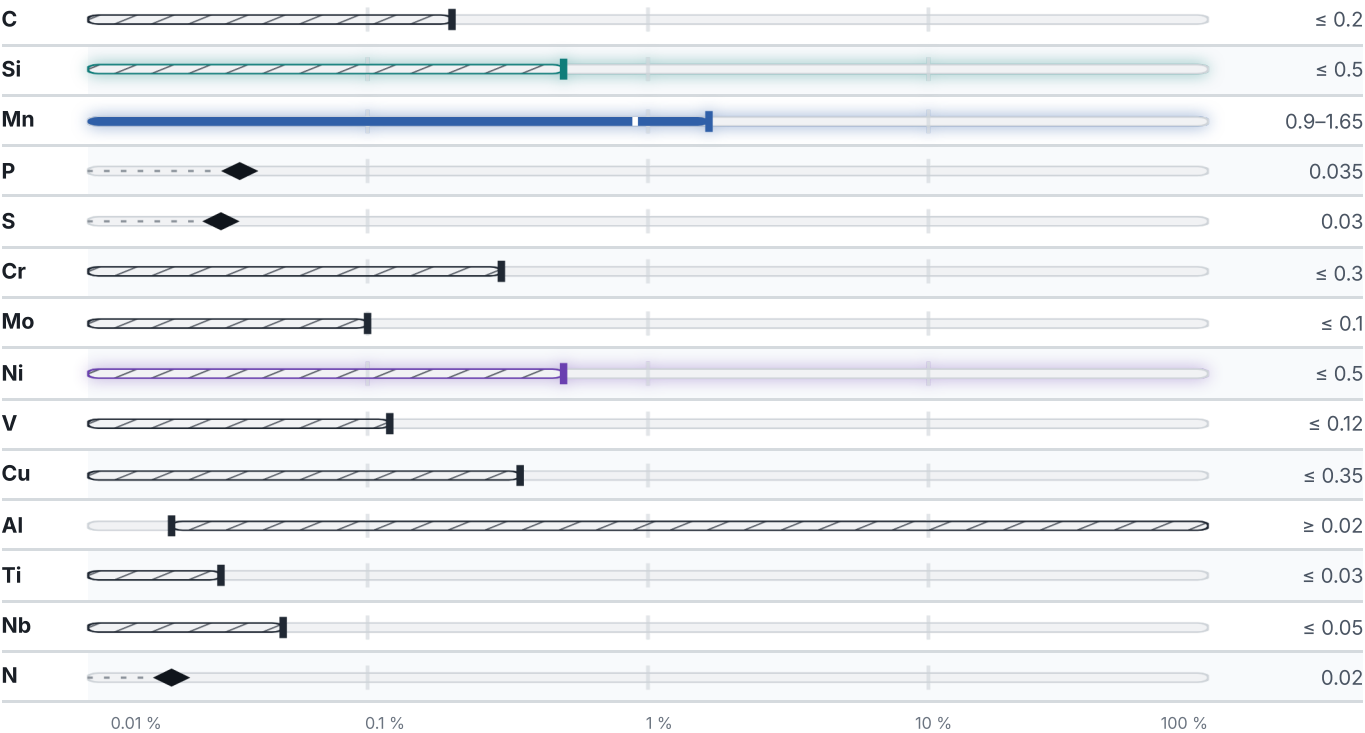
Chemical composition

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

computed from composition · °C

PREDICTED AE3 808 °C	PREDICTED AE1 711 °C	PREDICTED ACM 437 °C	PREDICTED BS 546 °C
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Mechanical properties

6 values across 1 conditions

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²	A %
≤ 16	355	–	–
16 – 40	345	–	–
40 – 65	335	–	–
≤ 65	–	470–630	–
≤ 65	–	–	22
≤ 65	–	–	20

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

7 designations · 6 documented as identical

United States	5	Europe	2
K02305 This grade's own name	uns	S355NH This grade's own name	din-en
K02705 This grade's own name	uns	StE 355 N This grade's own name	din-en
K02803 This grade's own name	uns		
K12437	uns		
K12709 This grade's own name	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 K02705

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	1.0539	Aug 20, 2026