

MATERIAL NUMBER 1.6563 · CLASS 1.6

1.6563

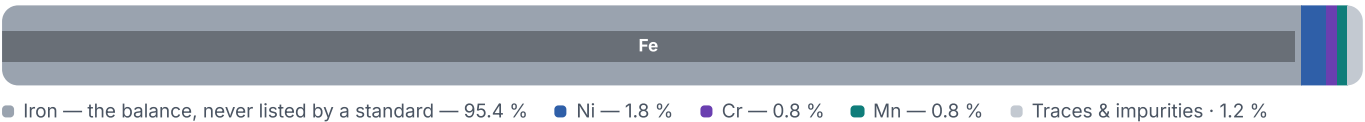
Chemical composition, mechanical and physical property values, and 5 standard designations from 4 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 5 in 4 regions	PROPERTY VALUES 10 on file
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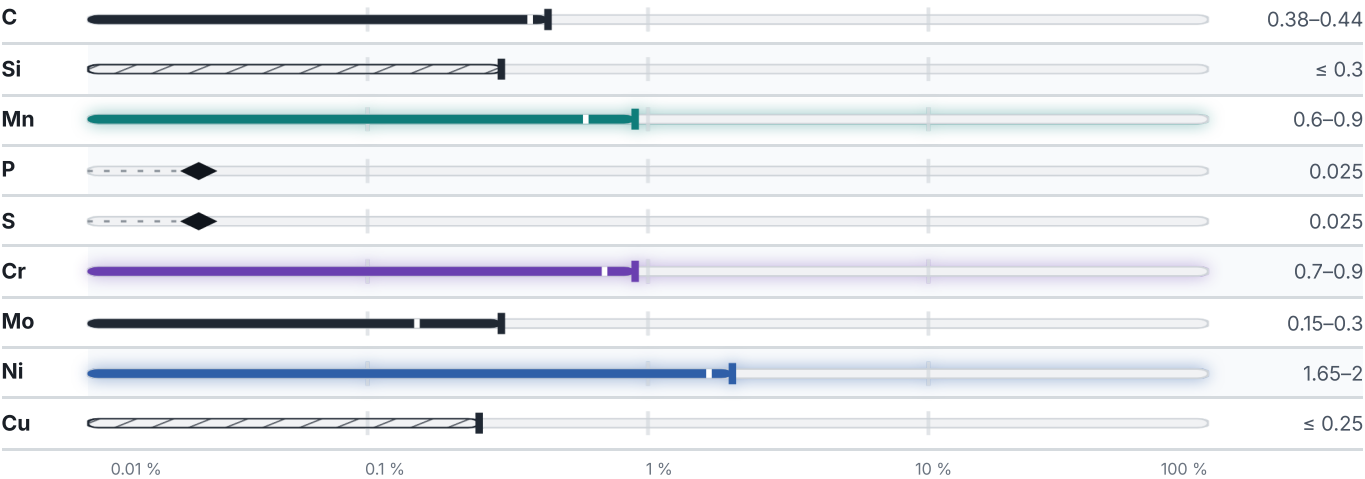
Chemical composition

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 739 °C	PREDICTED AE1 709 °C	PREDICTED ACM 616 °C	PREDICTED BS 507 °C
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Mechanical properties

15 values across 2 conditions

QUENCHED AND TEMPERED	REH N/mm ²	RM N/mm ²	A %
≤ 8	950	1150	9
8 – 20	870	1050	10
20 – 50	800	1000	11
50 – 80	750	900	12
≤ 100	–	–	16
100 – 160	–	–	15
SOFT ANNEALED			HB
Soft annealed			248–255

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

5 designations · 2 documented as identical

United States	2	Czechia	1
N08535 This grade's own name	uns	16341	csn
SA320 L43	astm	Slovakia	1
Europe	1	16 341	stn
41NiCrMo7-3-2 This grade's own name	din-en		

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 1.6563

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