

MATERIAL NUMBER 1.1153 · CLASS 1.1

1.1153

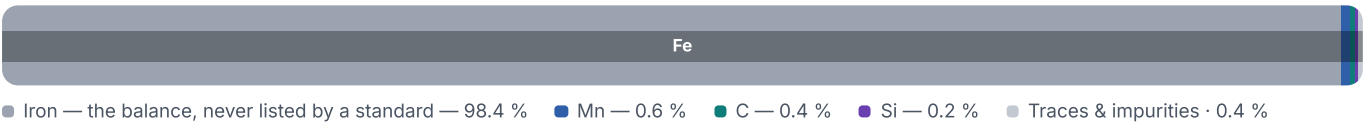
Chemical composition, mechanical and physical property values, and 10 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 6 regions	PROPERTY VALUES 12 on file
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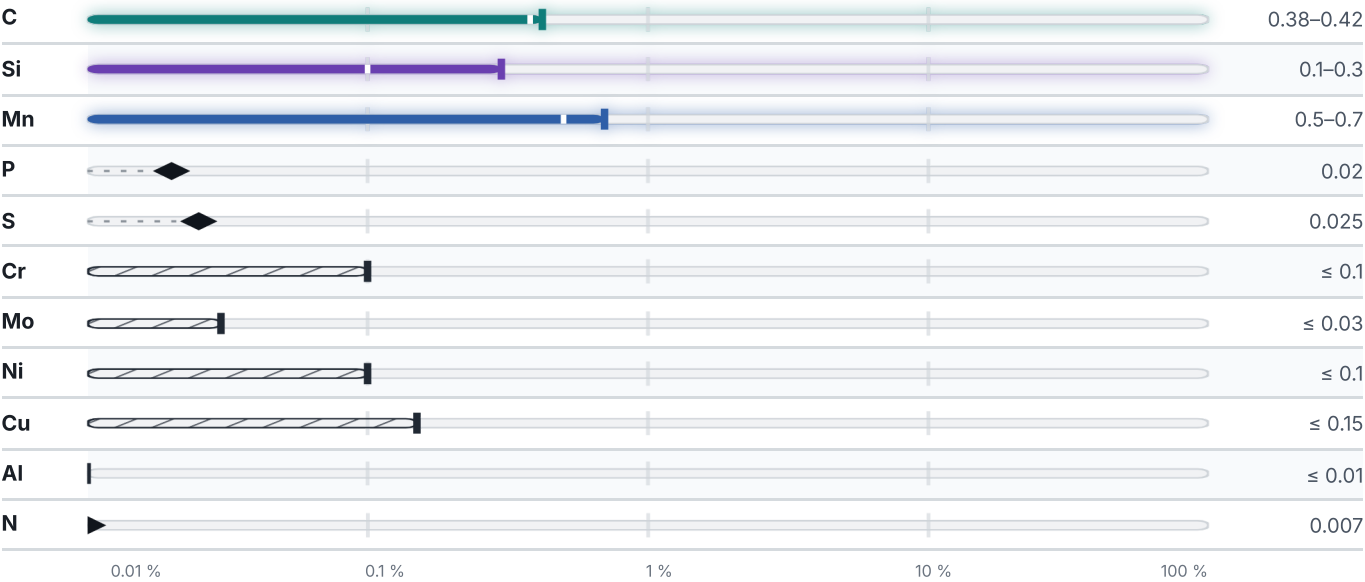
Chemical composition

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 781 °C	PREDICTED AE1 721 °C	PREDICTED ACM 575 °C	PREDICTED BS 582 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

10 designations · 3 documented as identical

United States	2	Russia / CIS	2
G10400 This grade's own name	uns	40	gost
1040 This grade's own name	aisi-sae	CT.40	gost
United Kingdom	2	Europe	1
060A40	bs	C40D2 This grade's own name	din-en
080A40	bs		
France	2	Japan	1
XC 42	afnor	S 40C	jis
XC38H1	afnor		

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 1.1153

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