

MATERIAL NUMBER 1.8978 · CLASS 1.8

X80

Material no. 1.8978

also listed as L555MB

Chemical composition, mechanical and physical property values, and 5 standard designations from 2 regions.

DENSITY**7.85** g/cm³**OTHER DESIGNATIONS****5** in 2 regions**PROPERTY VALUES****15** on file

Chemical composition

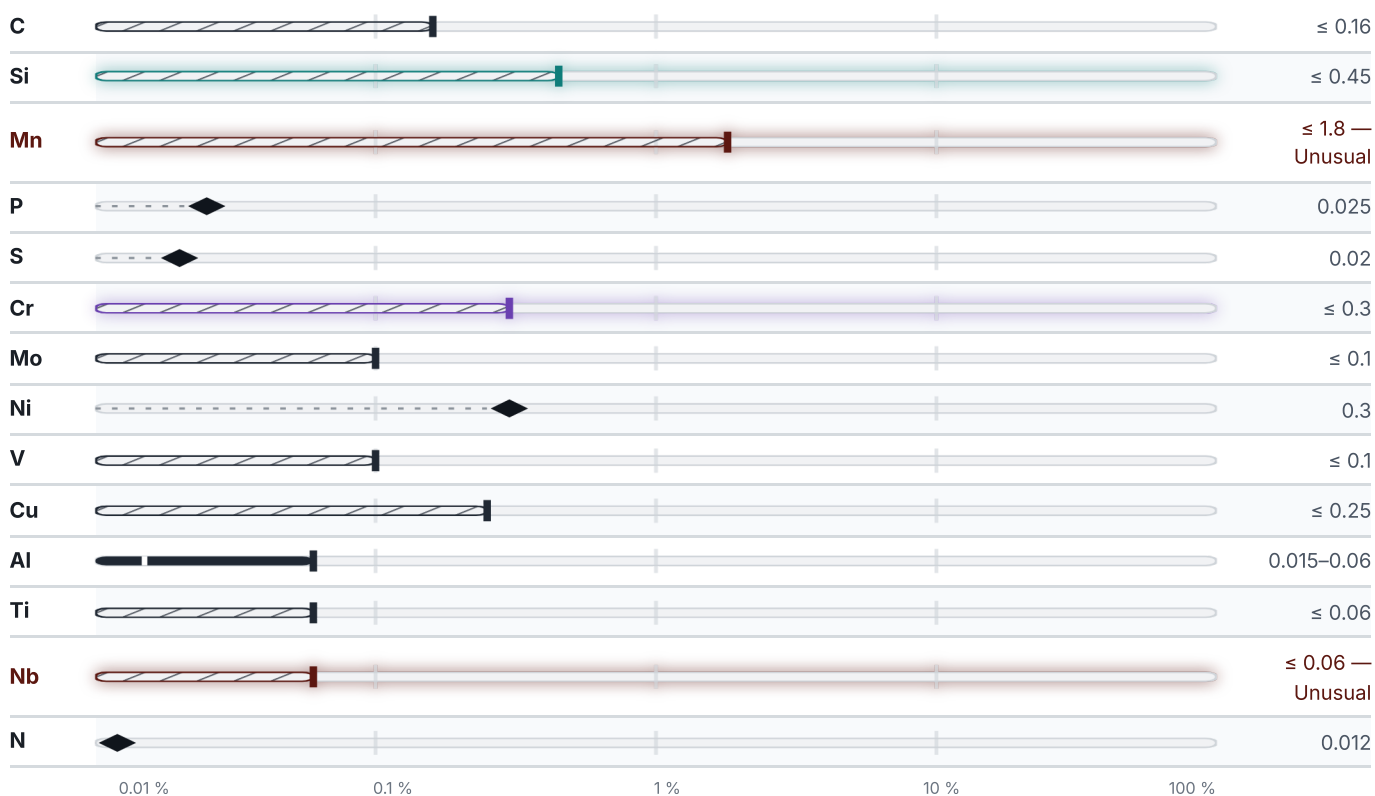
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 96.3 % ● Mn — 1.8 % ● Si — 0.5 % ● Cr — 0.3 % ● Traces & impurities · 1.1 %

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 815 °C	PREDICTED AE1 710 °C	PREDICTED ACM 406 °C	PREDICTED BS 546 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 4 documented as identical

United States3		Europe2	
K12700	This grade's own nameuns	L555MB	This grade's own namedin-en
K12709	This grade's own nameuns	StE 550.7 TM	This grade's own namedin-en
X80	aisi-sae		

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 X80

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	1.8978	Aug 20, 2026