

MATERIAL NUMBER 1.6220 · CLASS 1.6

ZG20SiMn

Material no. 1.6220

also listed as G20Mn5

Chemical composition, mechanical and physical property values, and 4 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 4 in 3 regions	PROPERTY VALUES 11 on file
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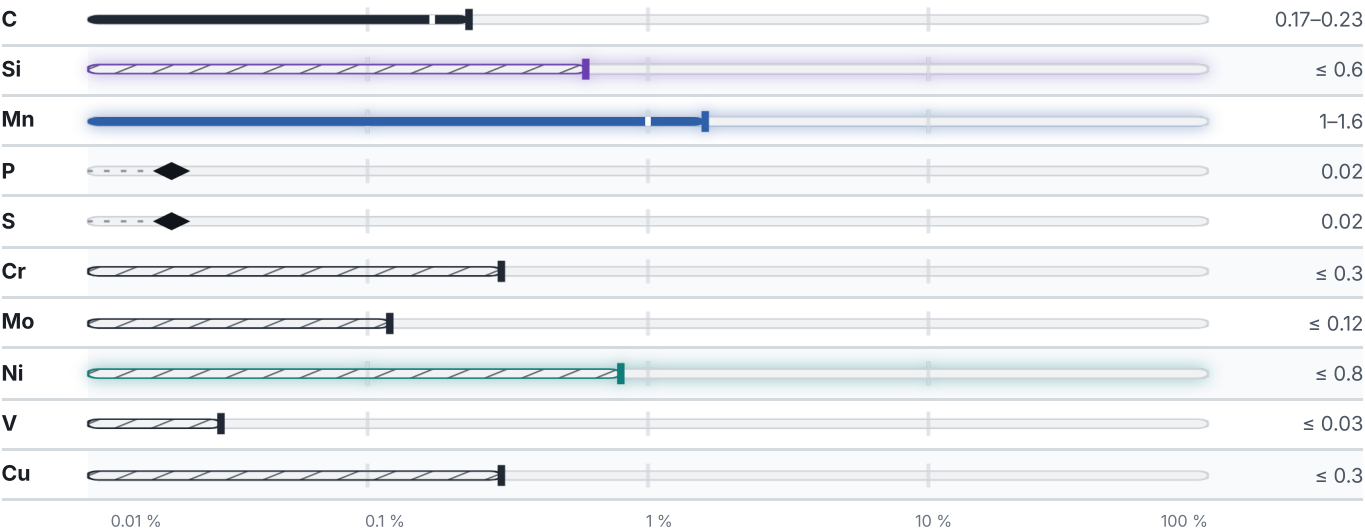
Chemical composition

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 803 °C	PREDICTED AE1 709 °C	PREDICTED ACM 461 °C	PREDICTED BS 541 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

4 designations · 2 documented as identical

Europe	2	United States	1
G20Mn5 This grade's own name	din-en	J02503 This grade's own name	uns
GS-20Mn5V	din-en	China	1
		ZG20SiMn	gb

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 ZG20SiMn

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	1.6220	Aug 20, 2026