

MATERIAL NUMBER 1.8859 · CLASS 1.8

Y31S420M3z

Material no. 1.8859

also listed as S420G4

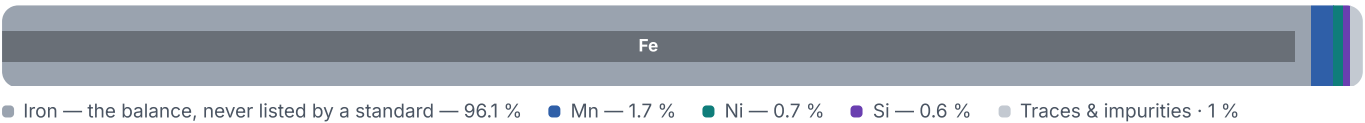
Chemical composition, mechanical and physical property values, and 4 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 4 in 3 regions	PROPERTY VALUES 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 818 °C	PREDICTED AE1 708 °C	PREDICTED ACM 384 °C	PREDICTED BS 549 °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
S420G4 This grade's own name	din-en	2WGr.60	aisi-sae
S420G4+M This grade's own name	din-en	Norway	1
		Y31S420M3z	ns

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 Y31S420M3z

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	1.8859	Aug 20, 2026