

MATERIAL NUMBER 1.8857 · CLASS 1.8

S420G2+QT

Material no. 1.8857

also listed as S420G2+M

Chemical composition, mechanical and physical property values, and 8 standard designations from 3 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

8 in 3 regions

PROPERTY VALUES

15 on file

Chemical composition

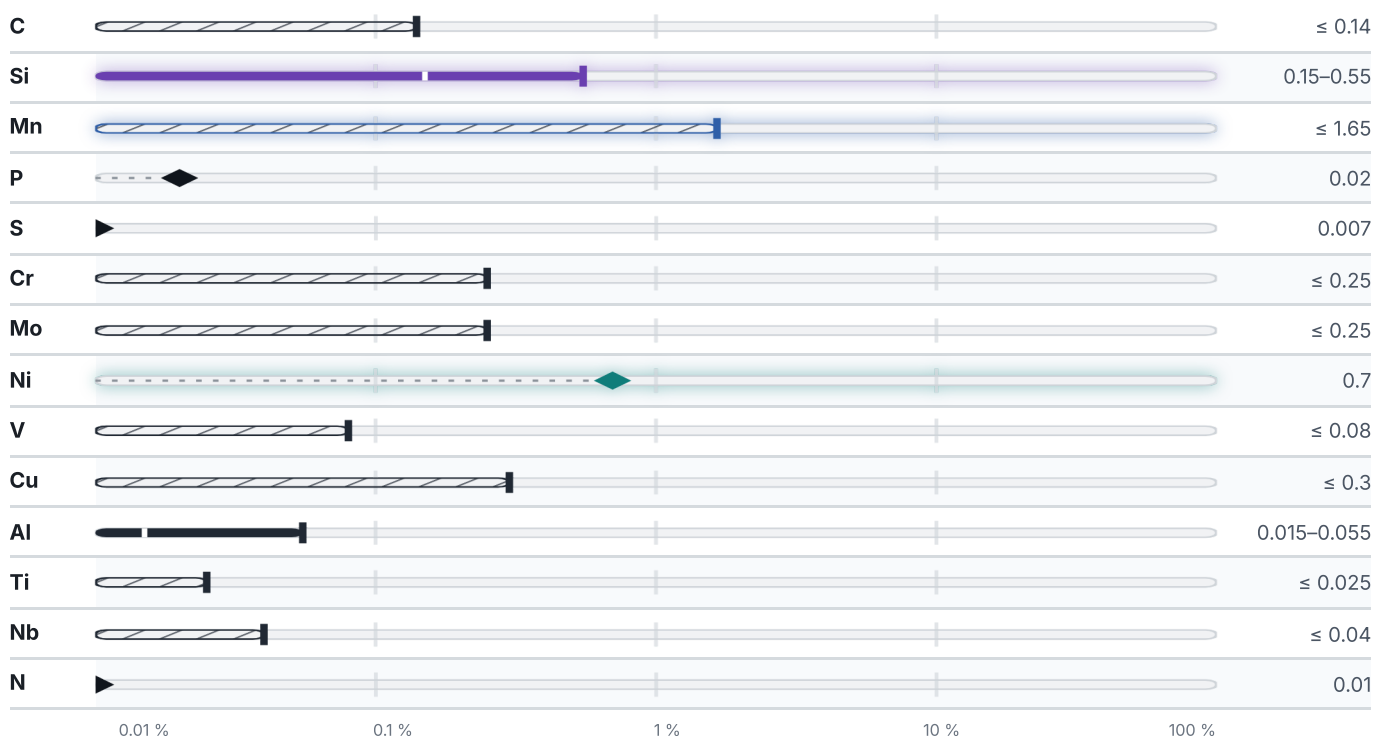
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 96.1 % ● Mn — 1.7 % ● Ni — 0.7 % ● Si — 0.4 % ● Traces & impurities · 1.2 %

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 385 °C	PREDICTED BS 542 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

8 designations · 2 documented as identical

Europe	4	United States	2
2YGr.60	din-en	2WGr.60	aisi-sae
S420G2	din-en	2YGr.60	aisi-sae
S420G2+M	This grade's own name din-en		
S420G2+QT	This grade's own name din-en	Norway	2
		Y30S420M3z	ns
		Y30S420Q3z	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 S420G2+QT

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	1.8857	Aug 20, 2026