

MATERIAL NUMBER 1.8878 · CLASS 1.8

Y45S460M3

Material no. 1.8878

also listed as S460G1+M

Chemical composition, mechanical and physical property values, and 9 standard designations from 4 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

9 in 4 regions

PROPERTY VALUES

15 on file

Chemical composition

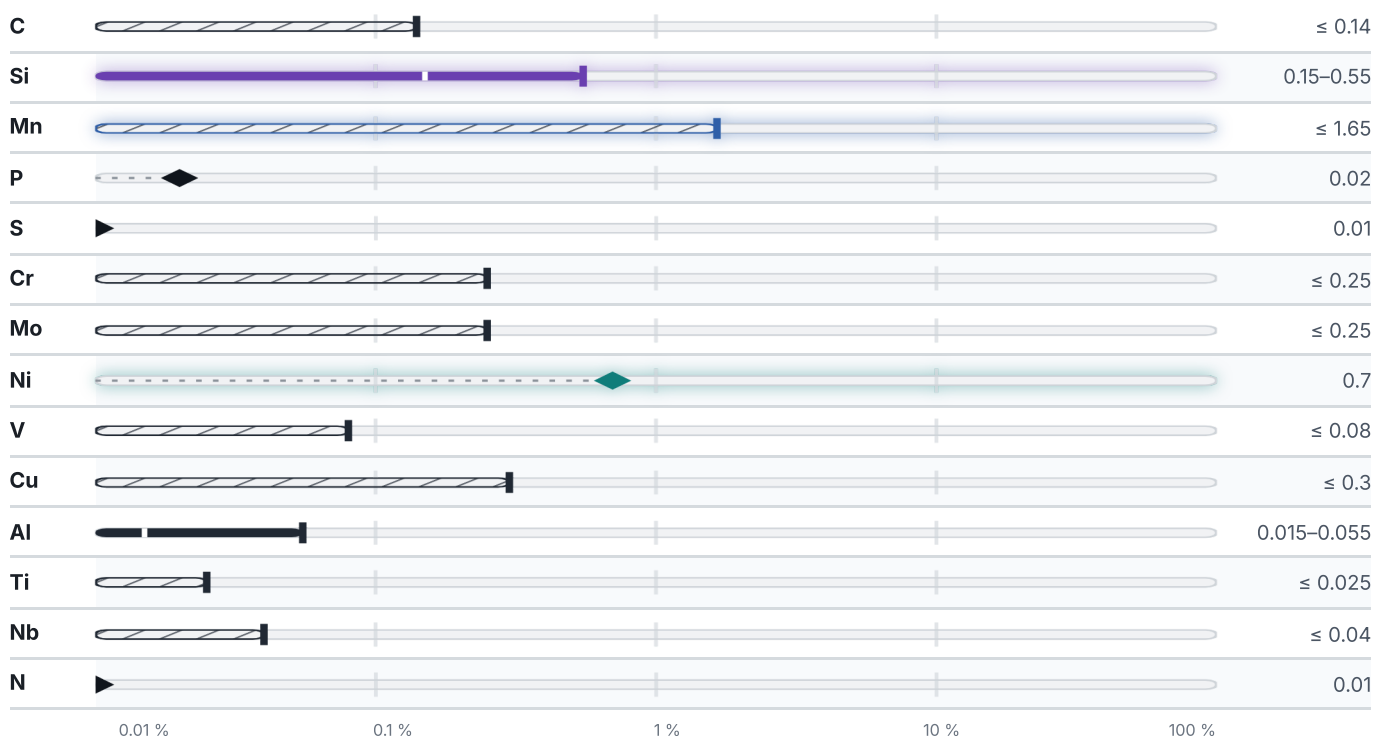
Mass fraction in %

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

9 designations · 2 documented as identical

Europe	4	Norway	2
2YGr.60	din-en	Y45S460M3	ns
S460G1	din-en	Y45S460Q3	ns
S460G1+M	This grade's own name din-en	United Kingdom	1
S460G1+QT	This grade's own name din-en	450EM	bs
United States	2		
2WGr.60	aisi-sae		
2YGr.60	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 Y45S460M3

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	1.8878	Aug 20, 2026