

MATERIAL NUMBER 1.8854 · CLASS 1.8

S420G01

Material no. 1.8854

also listed as FStE 420 OS 1

Chemical composition, mechanical and physical property values, and 2 standard designations from 1 regions.

DENSITY**7.85** g/cm³**OTHER DESIGNATIONS****2** in 1 regions**PROPERTY VALUES****15** on file

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 815 °C	PREDICTED AE1 708 °C	PREDICTED ACM 398 °C	PREDICTED BS 553 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

2 designations · 2 documented as identical

Europe	2
FStE 420 OS 1 This grade's own name	din-en
S420G01 This grade's own name	din-en

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 S420G01

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	1.8854	Aug 20, 2026