

MATERIAL NUMBER 1.0117 · CLASS 1.0

40EE

Material no. 1.0117

also listed as S235J2

Chemical composition, mechanical and physical property values, and 8 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 8 in 6 regions	PROPERTY VALUES 6 on file
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Chemical composition

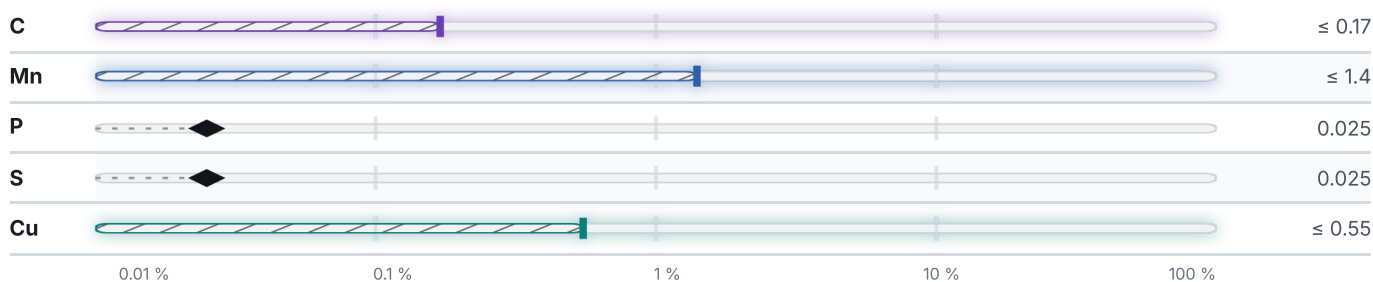
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.8 % ● Mn — 1.4 % ● Cu — 0.6 % ● C — 0.2 % ● Traces & impurities · 0 %

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Si, Ni, Cr, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

8 designations · 2 documented as identical

Europe	3	China	1
Fe360D2	din-en	Q235D	gb
S235J2 This grade's own name	din-en		
S235J2G4 This grade's own name	din-en	Russia / CIS	1
United States	1	17G1S	gost
A36	aisi-sae	Hungary	1
United Kingdom	1	Fe 235 D	msz
40EE	bs		

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 40EE

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	1.0117	Aug 20, 2026