

MATERIAL NUMBER 1.0145 · CLASS 1.0

A1011SS Grade40

Material no. 1.0145

also listed as S275J2

Chemical composition, mechanical and physical property values, and 11 standard designations from 9 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	11 in 9 regions	6 on file

Chemical composition

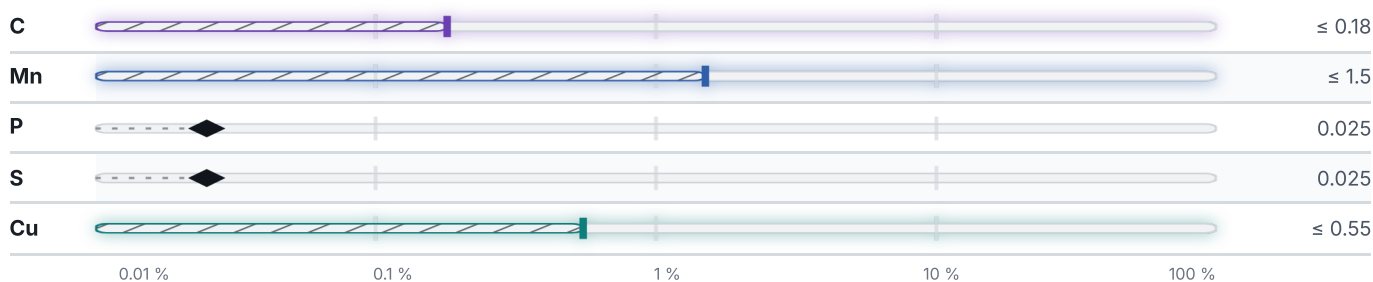
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.7 % ● Mn — 1.5 % ● 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

11 designations · 3 documented as identical

Europe	3	Sweden	1
Fe430D2	din-en	1414-01	ss
S275J2	This grade's own name din-en	Czechia	1
S275J2G4	This grade's own name din-en	11448	csn
United States	1	Slovakia	1
A1011SS Grade40	This grade's own name astm	11 448	stn
United Kingdom	1	Hungary	1
43EE	bs	Fe 275 D	msz
China	1	Belgium	1
Q275	gb	AE295DD	nbn

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 A1011SS Grade40

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	1.0145	Aug 20, 2026