

MATERIAL NUMBER 1.0039 · CLASS 1.0

S235JRH

Material no. 1.0039

Chemical composition, mechanical and physical property values, and 5 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 5 in 4 regions	PROPERTY VALUES 6 on file
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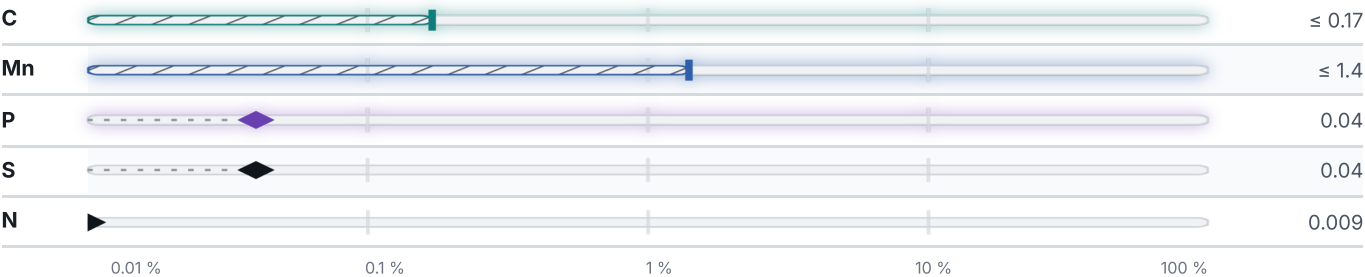
Chemical composition

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

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

Mechanical properties

13 values across 1 conditions

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²	A %
≤ 3	—	360–510	—

CONDITION · DIMENSION	REH N/mm ²	RM N/mm ²	A %
3 – 100	–	360–510	–
≤ 16	235	–	–
16 – 40	225	–	–
40 – 63	215	–	25
≤ 40	–	–	26
63 – 80	215	–	–
63 – 100	–	–	24
80 – 100	215	–	–
100 – 120	195	350–500	22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

5 designations · 3 documented as identical

Europe	2	Czechia	1
S235JRH This grade's own name	din-en	11375	csn
St 37-2 This grade's own name	din-en	Slovakia	1
United States	1	11 375	stn
K02401 This grade's own name	uns		

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 S235JRH

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	1.0039	Aug 20, 2026