

MATERIAL NUMBER 1.0305 · CLASS 1.0

St 35.8/I

Material no. 1.0305

also listed as P235G1TH

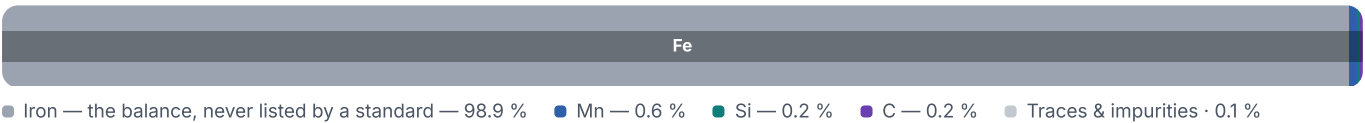
Chemical composition, mechanical and physical property values, and 16 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 16 in 3 regions	PROPERTY VALUES 6 on file
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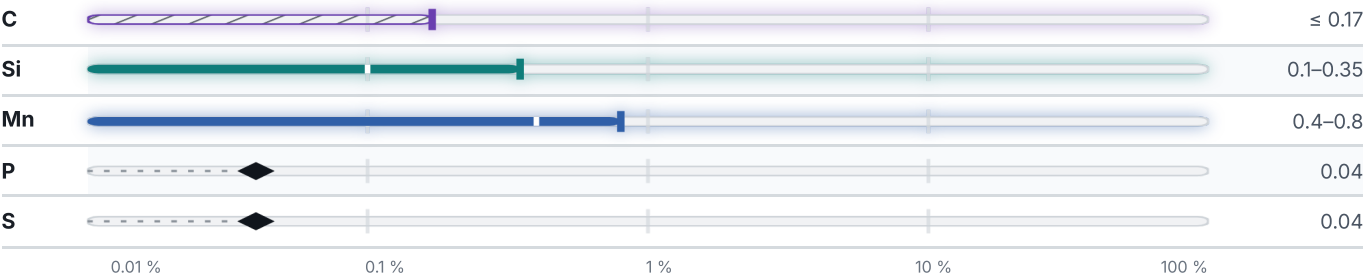
Chemical composition

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: Ni, Cr, Mo.

Mechanical properties

9 values across 1 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²
≤ 16	235	—

NORMALIZED	REH N/mm ²	RM N/mm ²
16 – 40	225	–
40 – 60	215	–
60 – 100	200	–
≤ 100	–	360–480
100 – 150	185	350–480
150 – 250	170	340–480

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

16 designations · 8 documented as identical

Europe8		United States7	
1.0305	din-en	K01200	This grade's own nameuns
P235G1TH	din-en	K01201	This grade's own nameuns
P235GH	din-en	K01807	This grade's own nameuns
P235GH TC1	din-en	K02501	This grade's own nameuns
P235GH TC2	din-en	K02504	This grade's own nameuns
St 35.8	din-en	A 106 Grade A	astm
St 35.8/I	din-en	A 234 Grade WPA	astm
St 35.8/III	din-en		
		Czechia1	
		12021	csn

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 St 35.8/I

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	1.0305	Aug 20, 2026