

MATERIAL NUMBER 1.0305 · CLASS 1.0

1.0305

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

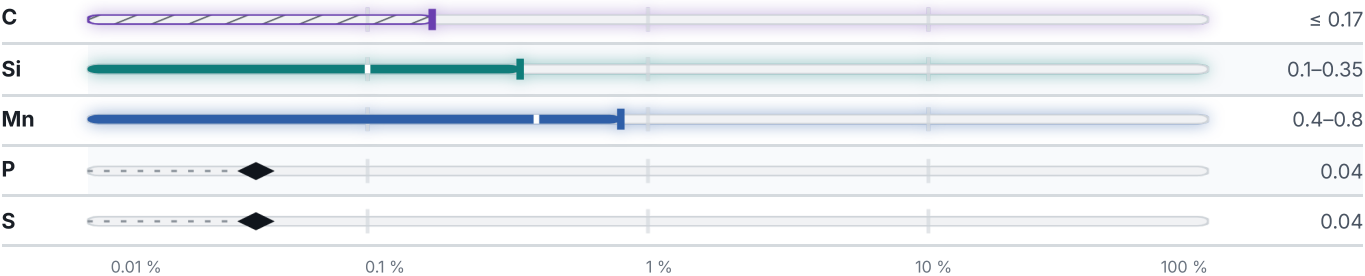
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.9 % ● Mn — 0.6 % ● Si — 0.2 % ● C — 0.2 % ● Traces & impurities · 0.1 %

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	—
16 – 40	225	—

NORMALIZED	REH N/mm ²	RM N/mm ²
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

Europe	8	United States	7
1.0305	din-en	K01200	This grade's own name uns
P235G1TH	This grade's own name din-en	K01201	This grade's own name uns
P235GH	This grade's own name din-en	K01807	This grade's own name uns
P235GH TC1	din-en	K02501	This grade's own name uns
P235GH TC2	din-en	K02504	This grade's own name uns
St 35.8	This grade's own name din-en	A 106 Grade A	astm
St 35.8/I	din-en	A 234 Grade WPA	astm
St 35.8/III	din-en		
		Czechia	1
		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 1.0305

Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED
Aug 20, 2026