

MATERIAL NUMBER 1.0408 · CLASS 1.0

St45

Material no. 1.0408

also listed as E255

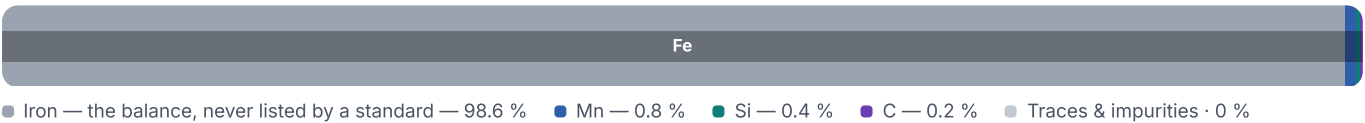
Chemical composition, mechanical and physical property values, and 10 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 3 regions	PROPERTY VALUES 6 on file
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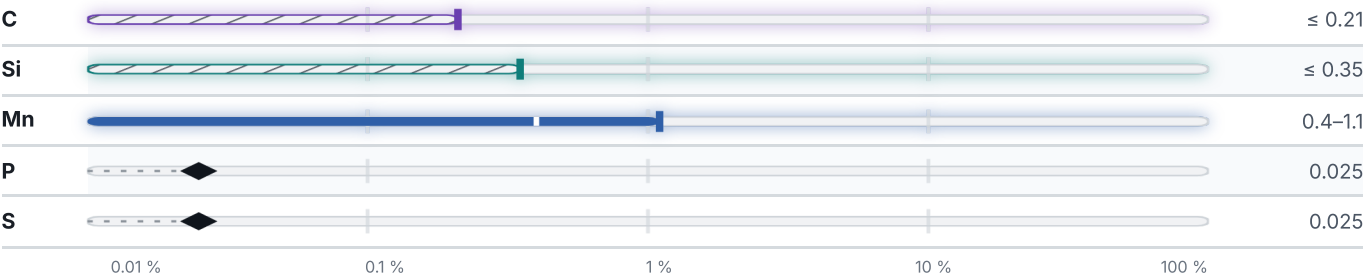
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

10 designations · 6 documented as identical

Europe	4	United States	3
E255	This grade's own name din-en	G10200	This grade's own name uns
S255GT	This grade's own name din-en	K03005	This grade's own name uns
St 45.8	This grade's own name din-en	1020	This grade's own name aisi-sae
St45	din-en		
		Czechia	3
		10022	csn
		11 453	csn
		12 022	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 St45

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	1.0408	Aug 20, 2026