

MATERIAL NUMBER 1.0982 · CLASS 1.0

50F45

Material no. 1.0982

also listed as QStE 460 TM

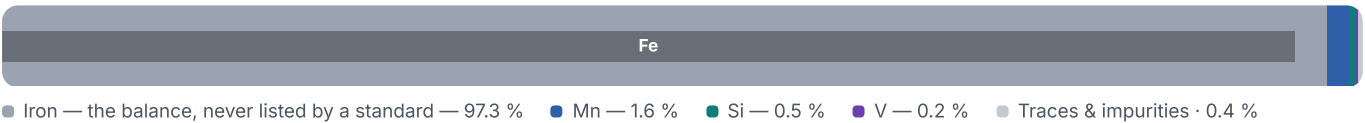
Chemical composition, mechanical and physical property values, and 9 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 9 in 5 regions	PROPERTY VALUES 10 on file
--	---	--------------------------------------

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

2 values across 1 conditions

CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So
≤ 3	14	–
≥ 3	–	17

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

9 designations · 5 documented as identical

United States	4	United Kingdom	1
Gr.65	aisi-sae	50F45	bs
A1008 This grade's own name	astm	France	1
A1008 Grade 65 Class 1 This grade's own name	astm	E445D	afnor
A1011 Grade 65 Class 2 This grade's own name	astm		
Europe	2	Spain	1
QStE 460 TM This grade's own name	din-en	AE440HC	une
S460MC This grade's own name	din-en		

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 50F45

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	1.0982	Aug 20, 2026