

MATERIAL NUMBER 1.0986 · CLASS 1.0

Gr.80

Material no. 1.0986

also listed as QStE 550 TM

Chemical composition, mechanical and physical property values, and 10 standard designations from 6 regions.

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

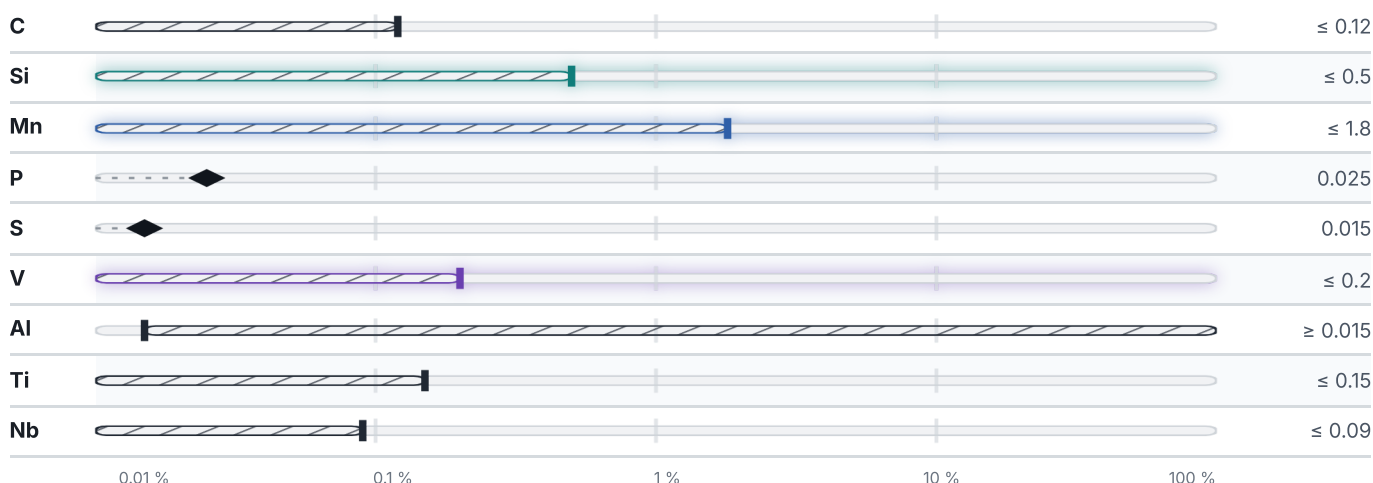
Chemical composition

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	12	–
≥ 3	–	14

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

10 designations · 4 documented as identical

United States3		United Kingdom2	
Gr.80	aisi-sae	60F45	bs
A1008 This grade's own name	astm	60F55	bs
A1011 Grade 80 This grade's own name	astm		
Europe2		France1	
QStE 550 TM This grade's own name	din-en	E560D	afnor
S550MC This grade's own name	din-en	International1	
		FeE560	iso
		Italy1	
		FeE560TM	uni

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 Gr.80

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	1.0986	Aug 20, 2026