

MATERIAL NUMBER 1.0980 · CLASS 1.0

1.0980

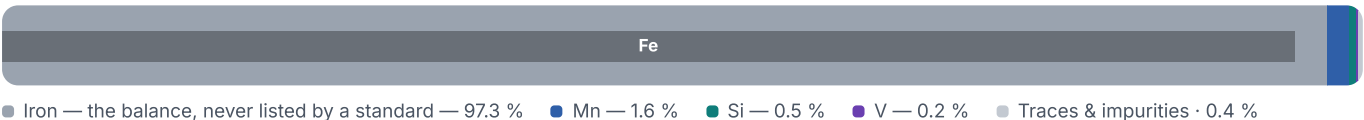
Chemical composition, mechanical and physical property values, and 11 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 11 in 8 regions	PROPERTY VALUES 10 on file
--	--	--------------------------------------

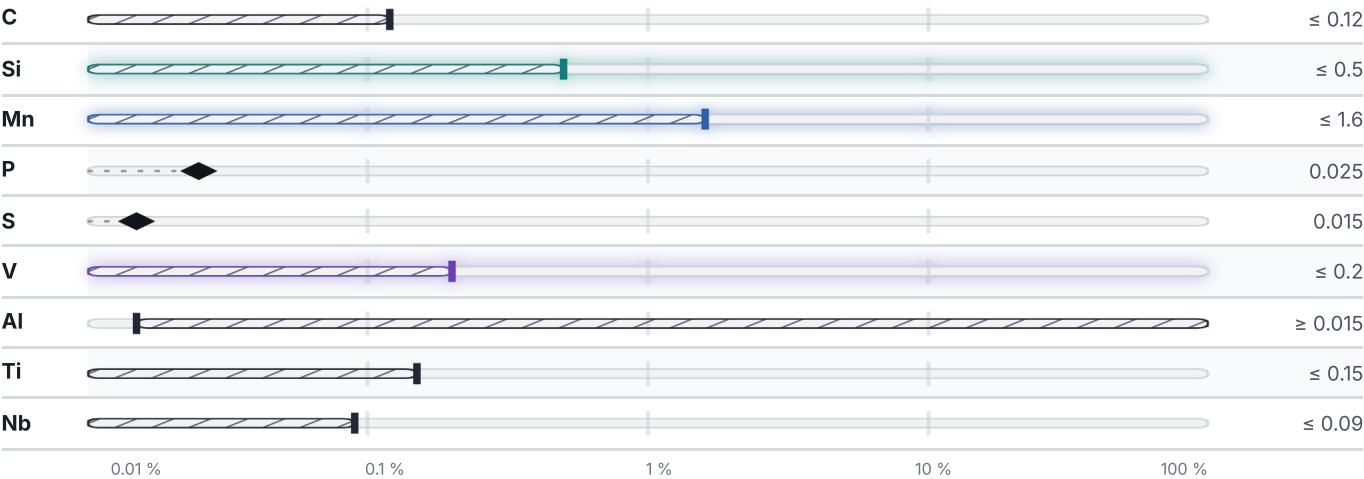
Chemical composition

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

5 values across 2 conditions

CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So	
≤ 3	16	–	
≥ 3	–	19	
CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
Plate/Sheet Hot-rolled	590	420	19–22

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

11 designations · 4 documented as identical

United States	3	France	1
Gr.60	aisi-sae	E420D	afnor
A1008 Grade 60 Class 1	This grade's own name	astm	
A1008 Grade 60 Class 2	This grade's own name	astm	
Europe	2	International	1
QStE 420 TM	This grade's own name	din-en	
S420MC	This grade's own name	din-en	
United Kingdom	1	FeE420	iso
HR50F45	bs	Japan	1
		SPFH590	jis
		Italy	1
		Fe420TM	uni
		Sweden	1
		2652	ss

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 1.0980

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

1.0980

ISSUED

Aug 20, 2026