

MATERIAL NUMBER 1.0972 · CLASS 1.0

1.0972

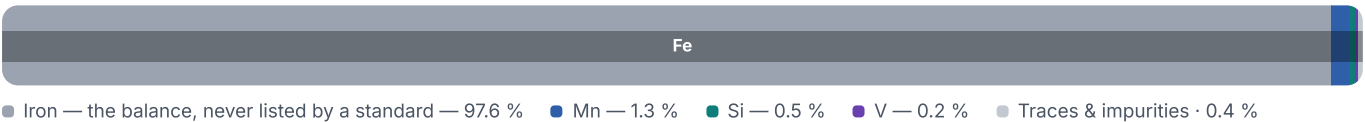
Chemical composition, mechanical and physical property values, and 14 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 14 in 6 regions	PROPERTY VALUES 10 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.

Mechanical properties

5 values across 2 conditions

CONDITION · DIMENSION	A80		A
	% · Lo = 80 mm		% · Lo = 5,65 √So
≤ 3	20		–
≥ 3	–		24
CONDITION · DIMENSION	RM	RE	A
	N/mm ²	N/mm ²	%
Plate/Sheet Hot-rolled	490	325	22–25

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

14 designations · 6 documented as identical

United States		5	Europe		2
1392	aisi-sae		QSTE 300 TM	This grade's own name	din-en
A1008	astm		S315MC	This grade's own name	din-en
A1008 Grade 45 Class 1	astm				
A1011 Grade 45 Class 2	astm				
A1011 Grade 50	astm				
United Kingdom		3	France		2
43F30	bs		E315D		afnor
43F35	bs		E335D		afnor
HR43F35	bs				
			Spain		1
			AE275HC		une
			Japan		1
			SPFH490		jis

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 1.0972

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

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ISSUED

Aug 20, 2026