

MATERIAL NUMBER 1.0972 · CLASS 1.0

AE275HC

Material no. 1.0972

also listed as QStE 300 TM

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

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

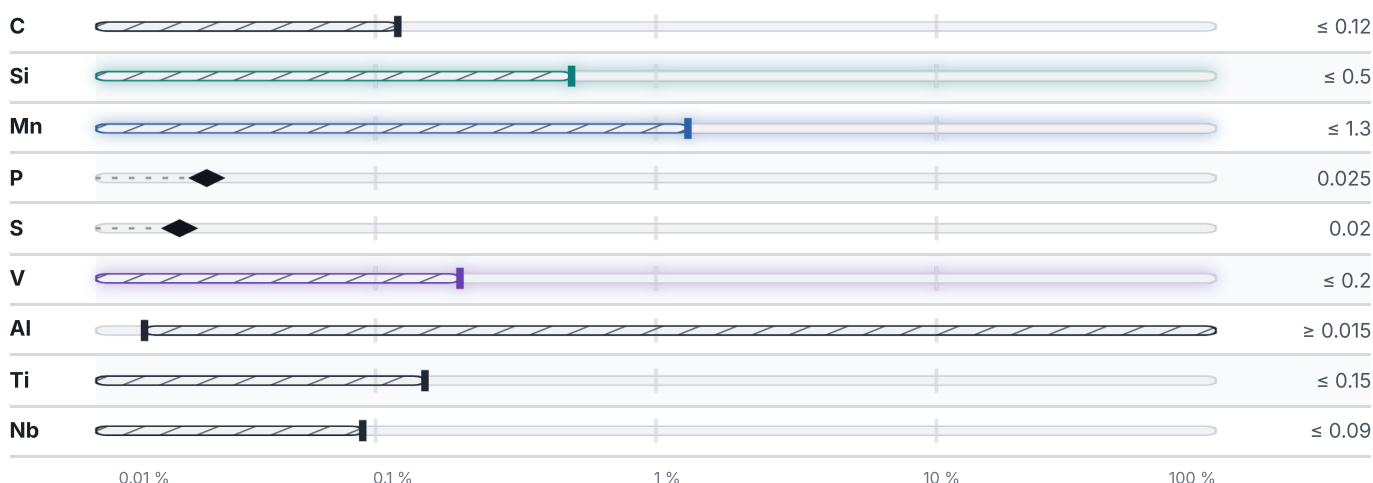
Chemical composition

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

5 values across 2 conditions

CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So
≤ 3	20	–
≥ 3	–	24

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
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	This grade's own name astm	S315MC	This grade's own name din-en
A1008 Grade 45 Class 1	This grade's own name astm		
A1011 Grade 45 Class 2	This grade's own name astm	France	2
A1011 Grade 50	This grade's own name astm	E315D	afnor
		E335D	afnor
United Kingdom	3	Spain	1
43F30	bs	AE275HC	une
43F35	bs		
HR43F35	bs	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 AE275HC

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

[Start an enquiry](#)

DATASHEET ONLINE

View the material page

GRADE SEARCH

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ISSUED

Aug 20, 2026