

MATERIAL NUMBER 1.7337 · CLASS 1.7

STC42

Material no. 1.7337

also listed as 16CrMo4-4

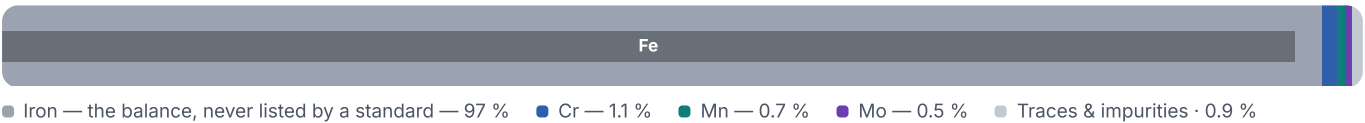
Chemical composition, mechanical and physical property values, and 15 standard designations from 8 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 15 in 8 regions	PROPERTY VALUES 9 on file
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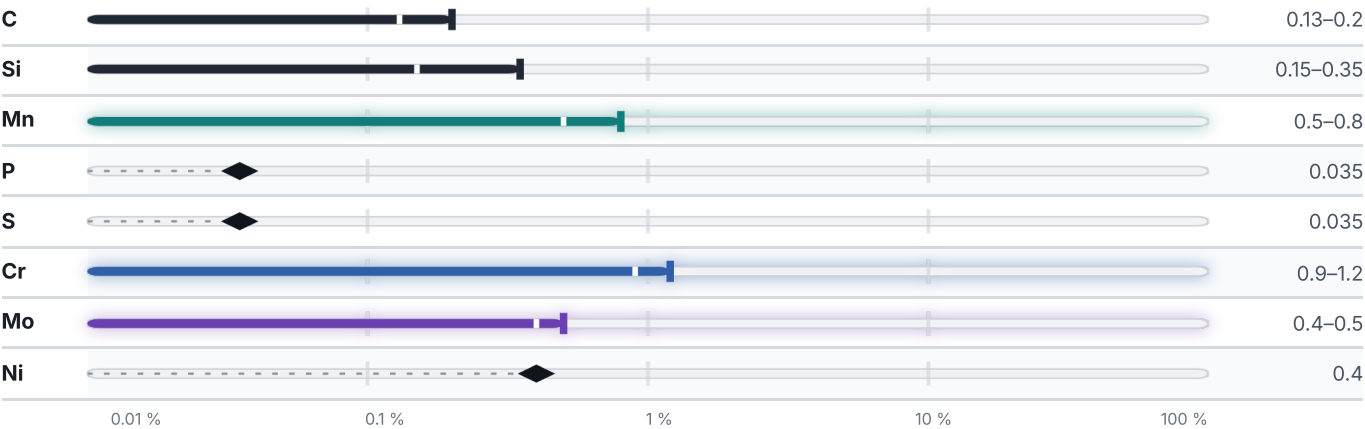
Chemical composition

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

computed from composition · °C

PREDICTED AE3 814 °C	PREDICTED AE1 742 °C	PREDICTED ACM 465 °C	PREDICTED BS 530 °C
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Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

15 designations · 3 documented as identical

United States	6	Europe	1
K11564 This grade's own name	uns	16CrMo4-4 This grade's own name	din-en
A387(12)	aisi-sae		
A 182 F 12 Class2 This grade's own name	astm	Japan	1
A-387Cr . B	astm	STC42	jis
A182 F12	astm		
A387(12)	astm	China	1
		15CrMo	gb
United Kingdom	2		
1653	bs	Russia / CIS	1
620Gr.27	bs	15XM	gost
France	2	Sweden	1
12CD4	afnor	2216	ss
15CD4.5	afnor		

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 STC42

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	1.7337	Aug 20, 2026