

MATERIAL NUMBER 1.7037 · CLASS 1.7

32C4u

Material no. 1.7037

also listed as 34CrS4

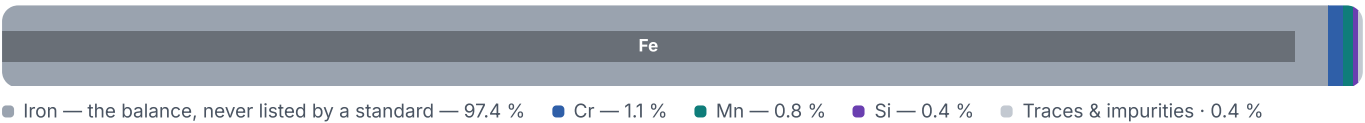
Chemical composition, mechanical and physical property values, and 13 standard designations from 8 regions.

DENSITY 7.72 g/cm³	OTHER DESIGNATIONS 13 in 8 regions	PROPERTY VALUES 7 on file
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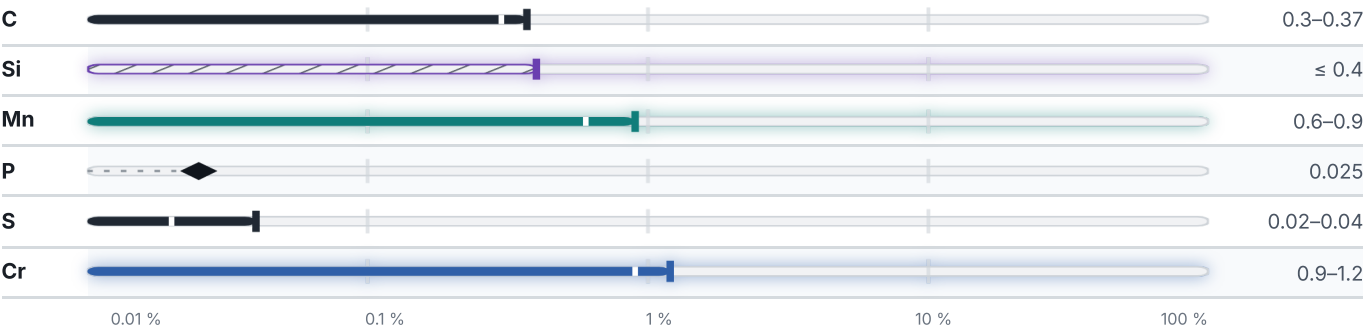
Chemical composition

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, Mo.

Mechanical properties

5 values across 3 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS	A % · Lo = 5,65 √So
≤ 16	12
16 – 40	14
40 – 100	15
TREATED TO IMPROVE SHEARABILITY	HB
Treated to improve shearability	255
SOFT ANNEALED	HB
Soft annealed	223

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.72	g/cm ³

Designations across standards

13 designations · 8 documented as identical

United States	4	Europe	1
G51320 This grade's own name	uns	34CrS4 This grade's own name	din-en
H51320 This grade's own name	uns	France	1
5132 This grade's own name	aisi-sae	32C4u	afnor
5132H This grade's own name	aisi-sae	International	1
United Kingdom	2	34CrS4	iso
530M32 This grade's own name	bs	Japan	1
EN18B This grade's own name	bs	SCR430H This grade's own name	jis
Hungary	2	Serbia	1
Cr 1 E	msz	Č.4180	srps
Cr 2 E	msz		

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 32C4u

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