

MATERIAL NUMBER 1.7038 · CLASS 1.7

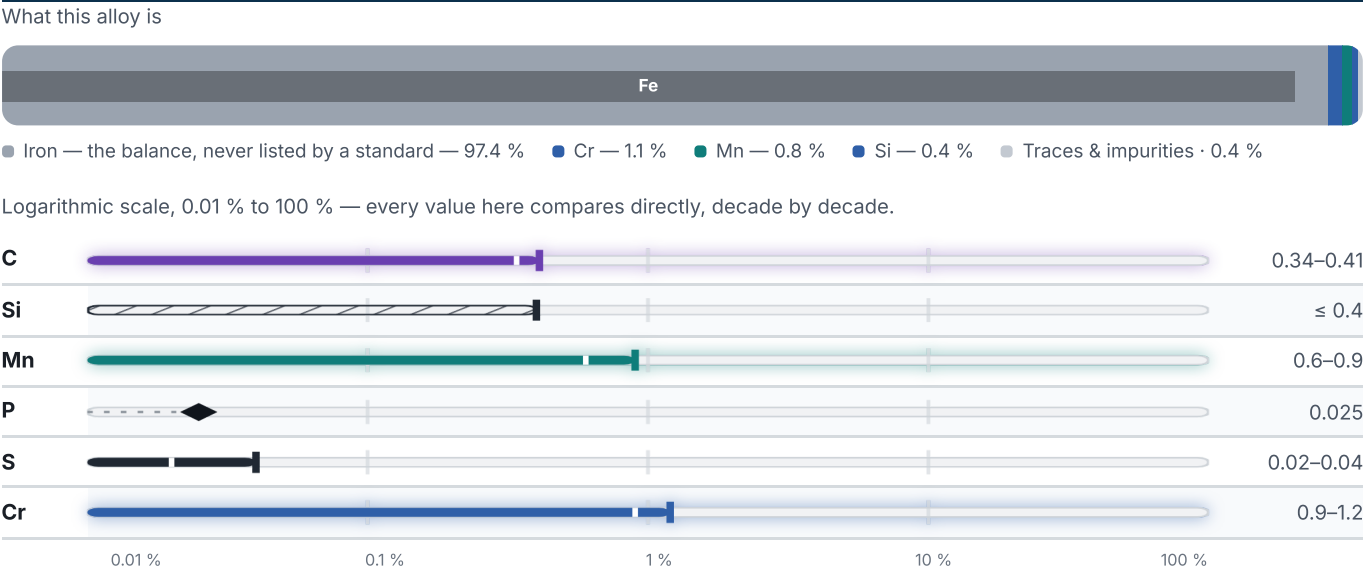
1.7038

Chemical composition, mechanical and physical property values, and 10 standard designations from 7 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 10 in 7 regions	PROPERTY VALUES 7 on file
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Chemical composition

Mass fraction in %



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	11
16 – 40	13

QUENCHED AND TEMPERED · ROUND PRODUCTS	A % · Lo = 5,65 √So
40 – 100	14
TREATED TO IMPROVE SHEARABILITY	HB
Treated to improve shearability	255
SOFT ANNEALED	HB
Soft annealed	235

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

10 designations · 5 documented as identical

United States	4	Spain	1
G51350 This grade's own name	uns	38Cr41	une
H51350 This grade's own name	uns	International	1
5135 This grade's own name	aisi-sae	37CrS4	iso
5135H This grade's own name	aisi-sae	Czechia	1
Europe	1	14146ŽH	csn
37CrS4 This grade's own name	din-en	Serbia	1
France	1	Č.4184	srps
38C4u	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 1.7038

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	1.7038	Aug 20, 2026