

MATERIAL NUMBER 1.2711 · CLASS 1.2

5ChNM

Material no. 1.2711

also listed as 54NiCrMoV6

Chemical composition, mechanical and physical property values, and 24 standard designations from 17 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 24 in 17 regions	PROPERTY VALUES 10 on file
--	---	--------------------------------------

Chemical composition

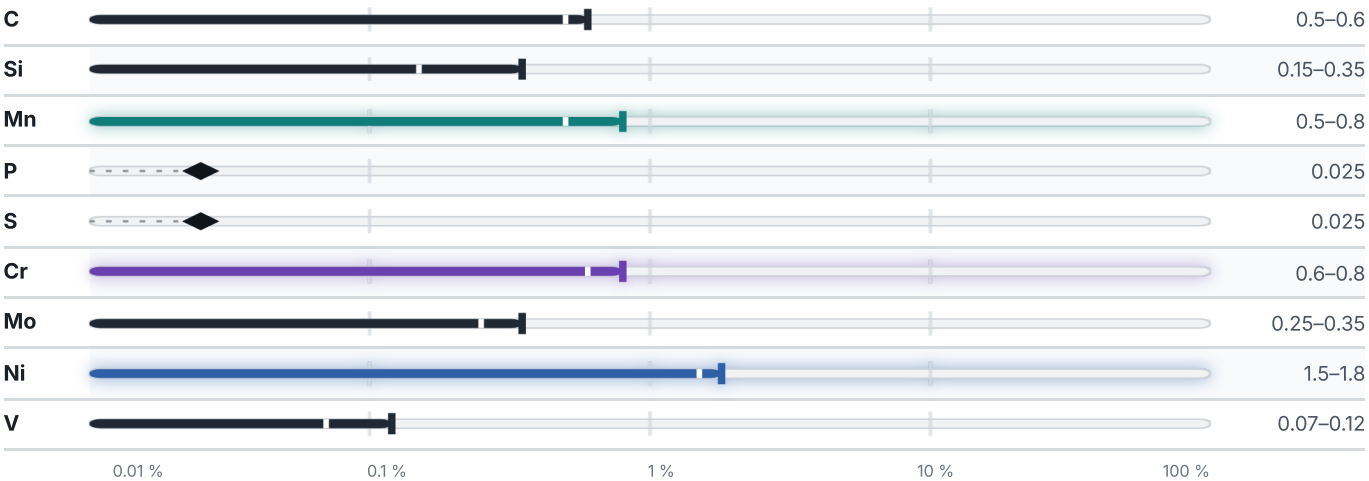
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.8 % ● Ni — 1.7 % ● Cr — 0.7 % ● Mn — 0.7 % ● Traces & impurities · 1.2 %

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 718 °C	PREDICTED AE1 712 °C	PREDICTED ACM 699 °C	PREDICTED BS 506 °C
--------------------------------	--------------------------------	--------------------------------	-------------------------------

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

24 designations · 1 documented as identical

United States	2	Europe	1
L 6	aisi-sae	54NiCrMoV6	This grade's own name din-en
T61206	aisi-sae		
France	2	United Kingdom	1
55NCDV7	afnor	BH224/5	bs
55NiCrMoV7	afnor	Spain	1
		F.520S	une
Japan	2	China	1
SKT3	jis	5CrNiMo	gb
SKT4	jis		
Russia / CIS	2	Sweden	1
5KHNM	gost	2550	ss
5XHM	gost		
Italy	2	Czechia	1
44NiCrMoV7KU	uni	19 662	csn
55NiCrMoV7KU	uni	Hungary	1
		NK	msz
Poland	2	Bulgaria	1
WNL	pn	5ChNM	bds
WNL1	pn		
Romania	2	Austria	1
55MoCrNi16	stas	W502	onorm
55VMoCrNi16	stas	South Korea	1
		STF4	ks

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 5ChNM

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](#)

MATERIAL NO.

1.2711

ISSUED

Aug 20, 2026