

MATERIAL NUMBER 1.4871 · CLASS 1.4

EV 8

Material no. 1.4871

also listed as X53CrMnNiN21-9

Chemical composition, mechanical and physical property values, and 37 standard designations from 17 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	37 in 17 regions	9 on file

Chemical composition

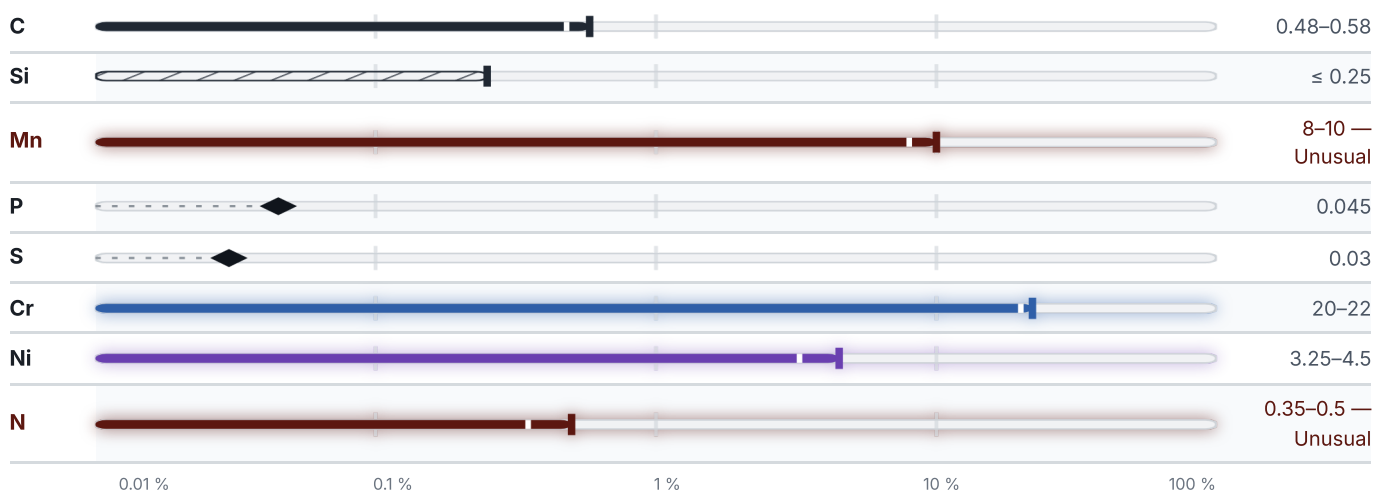
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 64.8 % ● Cr — 21 % ● Mn — 9 % ● Ni — 3.9 % ● Traces & impurities · 1.3 %

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: Mo.

Mechanical properties

5 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB
Bars/Rods Precipitation hardening treatment	880	560	8	–
Precipitation hardening treatment	–	–	–	302
SOLUTION ANNEALED				HRC
Solution annealed				30

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

37 designations · 3 documented as identical

Russia / CIS	6	Japan	3
55Ch20G9AN4	gost	SUH35	jis
55KH20G9AN4	gost	SUH36	jis
55KH20G9AN4	gost	SUH661	jis
55X20Г9AH4	gost		
5X20H4AГ9	gost	Europe	2
ЭП303	gost	1.4871	din-en
		X53CrMnNiN21-9	din-en
United States	4		
S63008	uns	China	2
EV 8	aisi-sae	5Cr21Mn9Ni4N	gb
EV12	aisi-sae	5Cr2Mn9Ni4N	gb
S63008	aisi-sae		
France	4	South Korea	2
Z52CMN21.09	afnor	STR35	ks
Z53CMN21-09Az	afnor	STR36	ks
Z53CMNS21-09AZ	afnor	International	1
Z5CMN21.09	afnor	Type9	iso
United Kingdom	3	Italy	1
349 S 52	bs	X53CrMnNiN21-9	uni
349S54	bs		
X53CrMnNiN21-9	bs	Czechia	1
		17465	csn
Spain	3	Poland	1
F.3217	une	50H21G9N4	pn
F.3217-X 53 CrMnIn 21-09	une		
X53CrMnNiN21-09	une		

Serbia	1	Romania	1
Č.4870	srps	53NNiMnCr210	stas
Hungary	1	Bulgaria	1
SZ13	msz	X53CrMnNiN21-9	bds

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 EV 8
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. 1.4871	ISSUED Aug 20, 2026
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