

MATERIAL NUMBER 1.5919 · CLASS 1.5

20HN3A

Material no. 1.5919

also listed as 15CrNi6

Chemical composition, mechanical and physical property values, and 29 standard designations from 11 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

29 in 11 regions

PROPERTY VALUES

11 on file

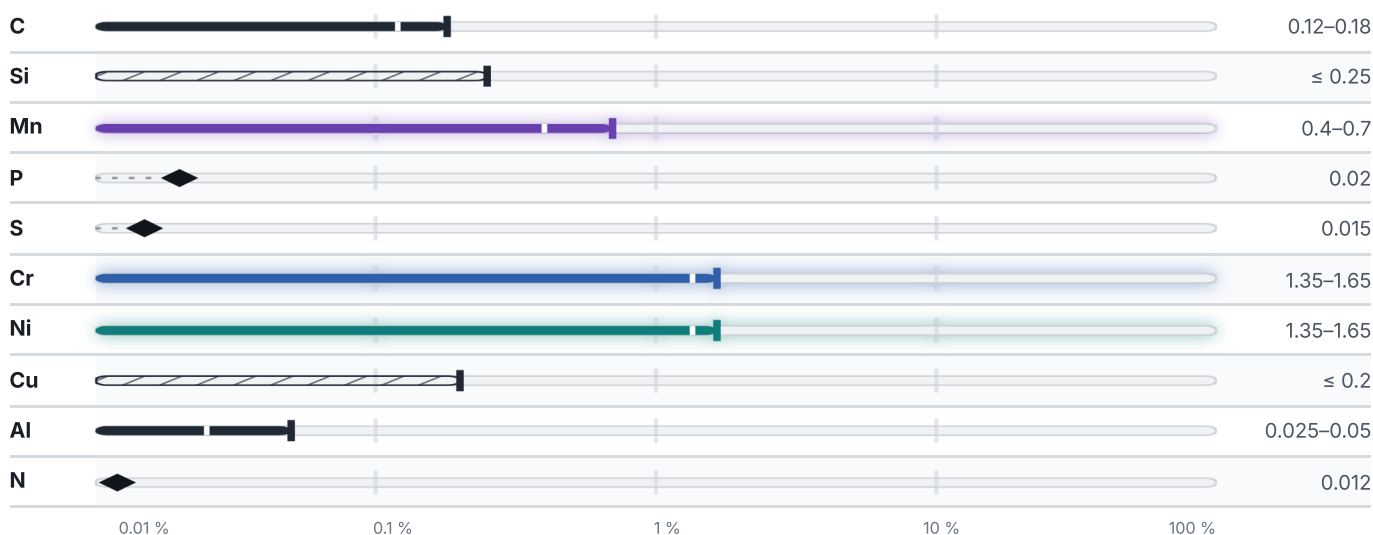
Chemical composition

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: Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

3 regimes

STEP	TEMPERATURE	MEDIUM
Carburizing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
Quenching	Temperature not stated	—

Designations across standards

29 designations · 9 documented as identical

United States	9	Japan	2
4320	uns	SNCM420	jis
G43200 This grade's own name	uns	SNCM420H	jis
G46170 This grade's own name	uns		
H43200 This grade's own name	uns	Russia / CIS	2
3115	aisi-sae	20ChN3A	gost
4320 This grade's own name	aisi-sae	20KhN3A	gost
4320H This grade's own name	aisi-sae		
4320RH This grade's own name	aisi-sae	Poland	2
4617 This grade's own name	aisi-sae	15HN	pn
		20HN3A	pn
China	4		
20CrNi3	gb	Bulgaria	2
20CrNi3A	gb	20ChN3A	bds
A42202	gb	20KhN3A	bds
A42203	gb		
Czechia	3	France	1
16220	csn	16NC6	afnor
16321	csn		
16321 PH	csn	Latin America	1
		4320	copant
Europe	2	Serbia	1
15CrNi6 This grade's own name	din-en	Č.5420	srps
17CrNi6-6 This grade's own name	din-en		

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 20HN3A

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.

1.5919

ISSUED

Aug 20, 2026