

MATERIAL NUMBER 1.4309 · CLASS 1.4

1.4309

Chemical composition, mechanical and physical property values, and 13 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 13 in 7 regions	PROPERTY VALUES 11 on file
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Chemical composition

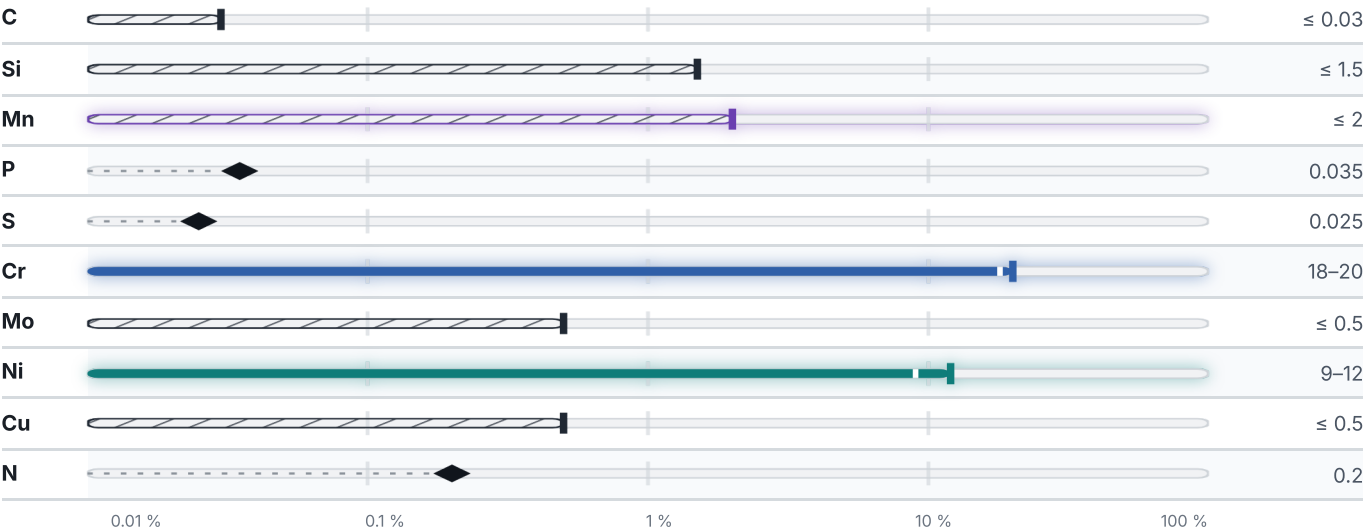
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 65.7 % ● Cr — 19 % ● Ni — 10.5 % ● Mn — 2 % ● Traces & impurities · 2.8 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

13 designations · 4 documented as identical

United States	5	Europe	1
J92500 This grade's own name	uns	GX2CrNi19-11 This grade's own name	din-en
J92620 This grade's own name	uns		
304L This grade's own name	aisi-sae	United Kingdom	1
J92500	aisi-sae	304C12	bs
J92620	aisi-sae		
United States / Aerospace	2	Spain	1
5511	ams	F.8412	une
5647	ams	Brazil	1
		304 L	abnt
Japan	2		
SCS 19	jis		
SCS 19A	jis		

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 1.4309

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