SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4950 · CLASS 1.4

309H

Material no. 1.4950

also listed as X6CrNi23-13

Chemical composition, mechanical and physical property values, and 32 standard designations from 6 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	32 in 6 regions	9 on file

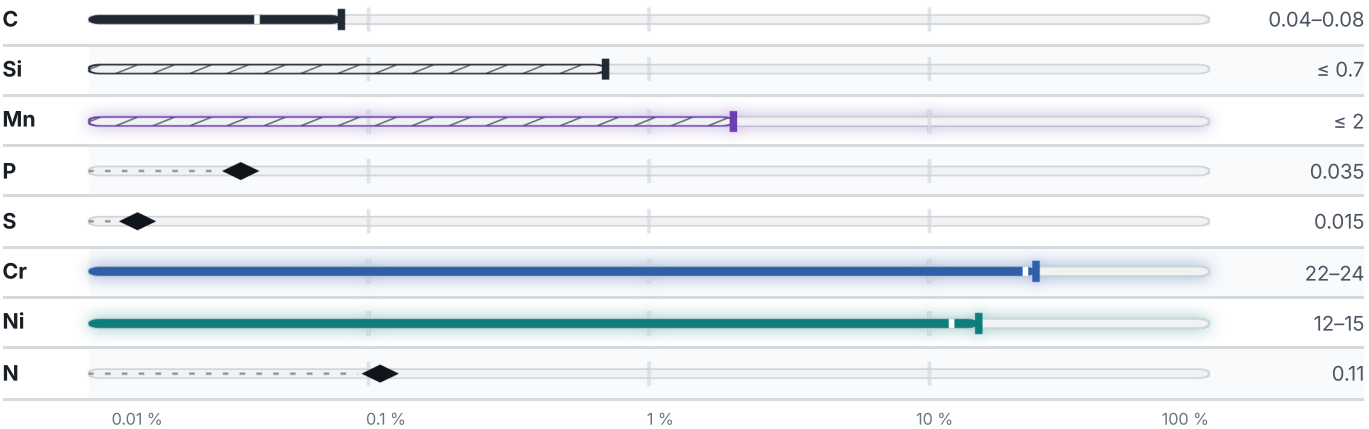
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 60.6 % · Cr — 23 % · Ni — 13.5 % · Mn — 2 % · Traces & impurities · 0.9 %

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/cm³

Designations across standards

32 designations · 5 documented as identical

United States 24

S30908 This grade's own name	uns
S30909 This grade's own name	uns
30309S	aisi-sae
309H This grade's own name	aisi-sae
309S This grade's own name	aisi-sae
A1012	astm
A213	astm
A240	astm
A249	astm
A276	astm
A312	astm
A314	astm
A358	astm
A409	astm
A473	astm
A478	astm
A479	astm
A511	astm
A554	astm
A580	astm
A813	astm
A814	astm
A924	astm
A943	astm

United States / Aerospace 4

5523	ams
5574	ams
5650	ams
7490	ams

Europe 1

X6CrNi23-13 This grade's own name	din-en

International 1

X6CrNi23-14	iso

Japan 1

SUS 309S	jis

China 1

0Cr23Ni13	gb

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 309H

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	1.4950	Aug 20, 2026