SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4829 · CLASS 1.4

S30309S

Material no. 1.4829

also listed as X12CrNi22-12

Chemical composition, mechanical and physical property values, and 15 standard designations from 7 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	**15** in 7 regions	**8** on file

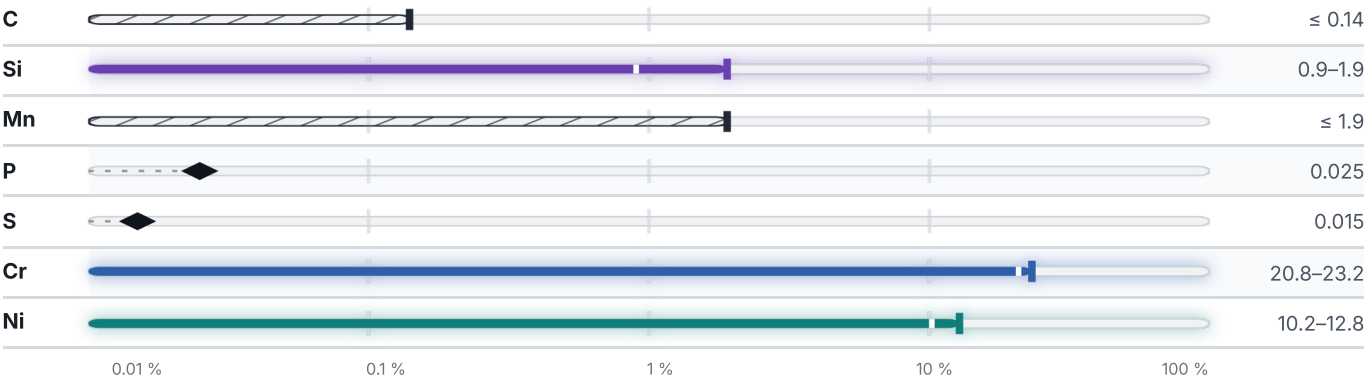
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 63 % · Cr — 22 % · Ni — 11.5 % · Mn — 1.9 % · Traces & impurities · 1.6 %

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

15 designations · 3 documented as identical

United States 5

S30309S	uns
S30980 This grade's own name	uns
S30981 This grade's own name	uns
309S	aisi-sae
TP309S	astm

Russia / CIS 4

20Ch23N13	gost
20H23N13	gost
20Kh23N13	gost
ЭИ319	gost

Italy 2

AR 309	uni
X16CrNi23-14	uni

Europe 1

X12CrNi22-12 This grade's own name	din-en

United Kingdom 1

309S24	bs

France 1

Z15CN24-13	afnor

Poland 1

H23N13	pn

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 S30309S

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	1.4829	Aug 20, 2026