

MATERIAL NUMBER 1.4829 · CLASS 1.4

S30981

Material no. 1.4829

also listed as X12CrNi22-12

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

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

Chemical composition

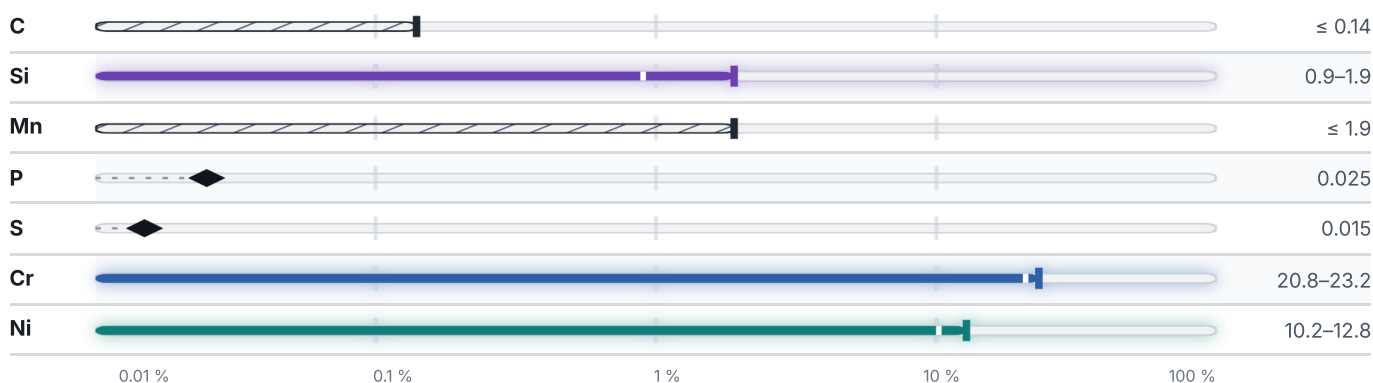
Mass fraction in %

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	Italy		2
S30309S		uns	AR 309		uni
S30980	This grade's own name	uns	X16CrNi23-14		uni
S30981	This grade's own name	uns			
309S		aisi-sae	Europe		1
TP309S		astm	X12CrNi22-12	This grade's own name	din-en
Russia / CIS		4	United Kingdom		1
20Ch23N13		gost	309S24		bs
20H23N13		gost			
20Kh23N13		gost	France		1
ЭИ319		gost	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 S30981

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