

MATERIAL NUMBER 1.4843 · CLASS 1.4

X16CrNi25-20

Material no. 1.4843

also listed as CrNi 25 20

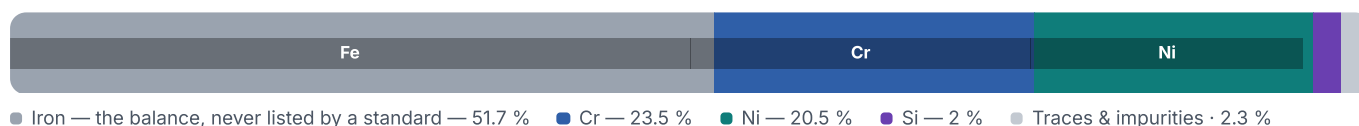
Chemical composition, mechanical and physical property values, and 17 standard designations from 9 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	17 in 9 regions	8 on file

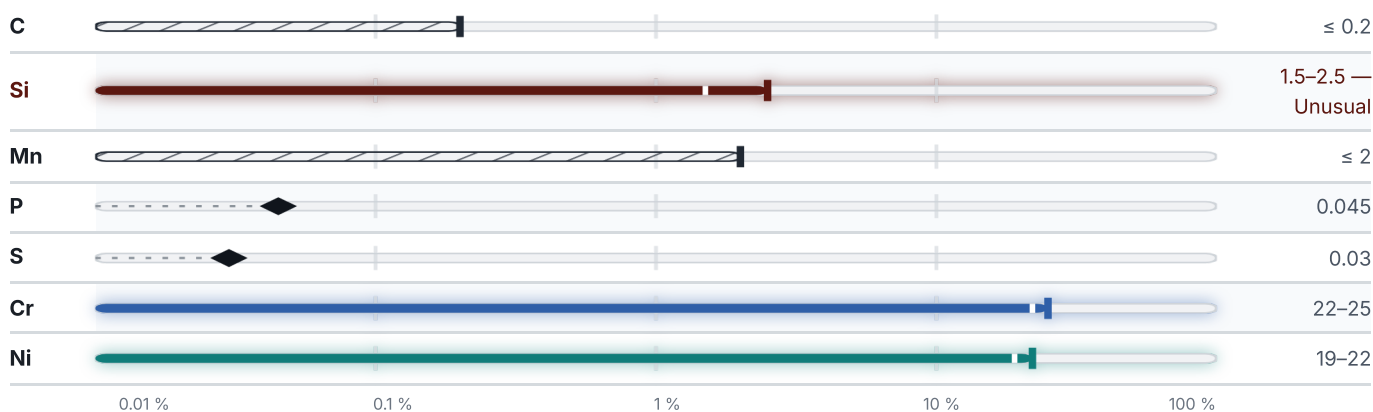
Chemical composition

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.

Mechanical properties

7 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %	HB	HRB	HV
Bars/Rods Solution treatment	590	205	40	50	–	–	–
Solution treatment	–	–	–	–	201	95	210

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

17 designations · 3 documented as identical

United States4		France2	
J94202	This grade's own nameuns	AF Z12CN25-20	afnor
S31000	uns	Z12CN25-20	afnor
S31008	uns	United Kingdom1	
310S	aisi-sae	310S24	bs
Russia / CIS4		Japan1	
10Ch23N18	gost	SUH 310	jis
10Kh23N18	gost	China1	
20Ch23N18	gost	2Cr25Ni20	gb
20Kh23N18	gost	Sweden1	
Europe2		23 61	ss
CrNi 25 20	This grade's own namedin-en	Poland1	
X16CrNi25-20	This grade's own namedin-en	H23N18	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 X16CrNi25-20

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	1.4843	Aug 20, 2026