

MATERIAL NUMBER 1.4843 · CLASS 1.4

1.4843

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

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

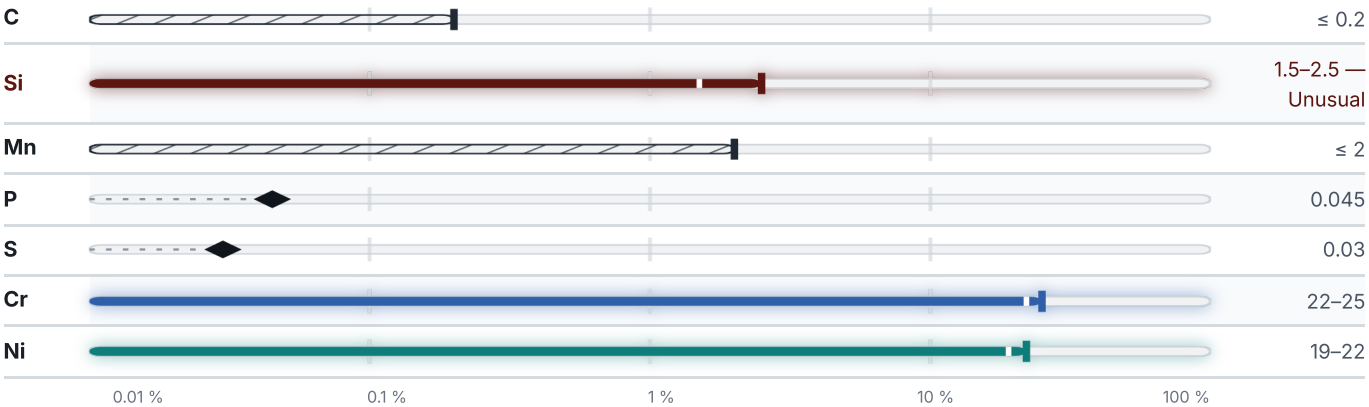
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 51.7 % ● Cr — 23.5 % ● Ni — 20.5 % ● Si — 2 % ● Traces & impurities · 2.3 %

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 States	4	France	2
J94202 This grade's own name	uns	AF Z12CN25-20	afnor
S31000	uns	Z12CN25-20	afnor
S31008	uns		
310S	aisi-sae	United Kingdom	1
		310S24	bs
Russia / CIS	4	Japan	1
10Ch23N18	gost	SUH 310	jis
10Kh23N18	gost		
20Ch23N18	gost	China	1
20Kh23N18	gost	2Cr25Ni20	gb
Europe	2	Sweden	1
CrNi 25 20 This grade's own name	din-en	23 61	ss
X16CrNi25-20 This grade's own name	din-en		
		Poland	1
		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 1.4843

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