

MATERIAL NUMBER 1.4583 · CLASS 1.4

X10CrNiMoNb1812

Material no. 1.4583

also listed as GX10CrNiMoNb18-12

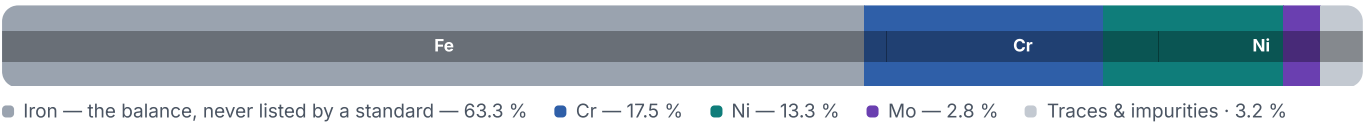
Chemical composition, mechanical and physical property values, and 8 standard designations from 6 regions.

DENSITY 7.95 g/cm³	OTHER DESIGNATIONS 8 in 6 regions	PROPERTY VALUES 9 on file
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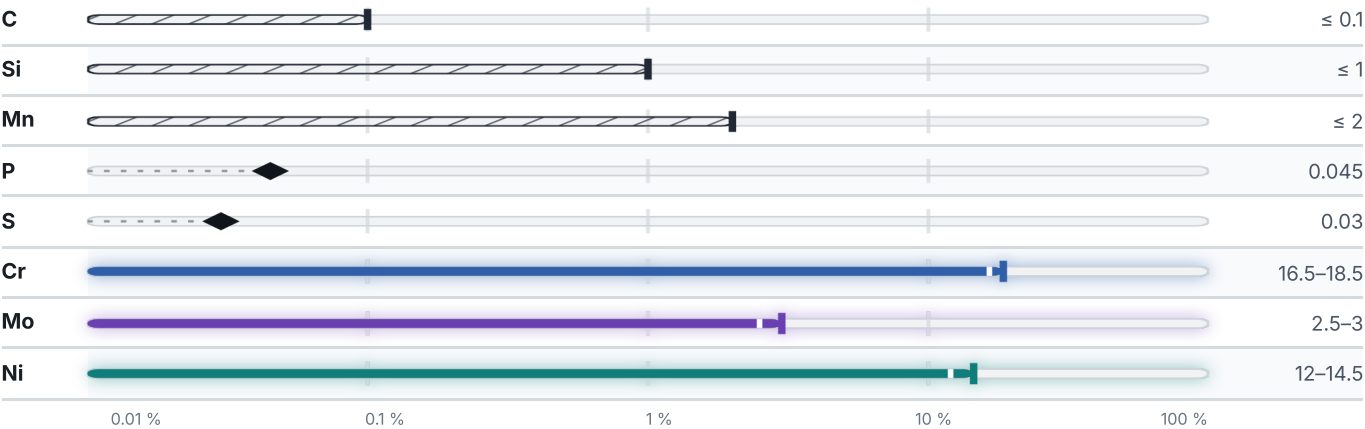
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.95	g/cm³

Designations across standards

8 designations · 1 documented as identical

Europe	3	China	1
1.4583	din-en	Cr17Ni12Mo3Mb	gb
GX10CrNiMoNb18-12	din-en	Russia / CIS	1
X10CrNiMoNb1812	din-en	09Ch16N15M3B	gost
United States	1	Italy	1
318	aisi-sae	X6CrNiMoNb1713	uni
France	1		
Z6CNDNb1713B	afnor		

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 X10CrNiMoNb1812

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	1.4583	Aug 20, 2026