

MATERIAL NUMBER 1.4580 · CLASS 1.4

G-X 10 CrNiMoNb 18 10

Material no. 1.4580

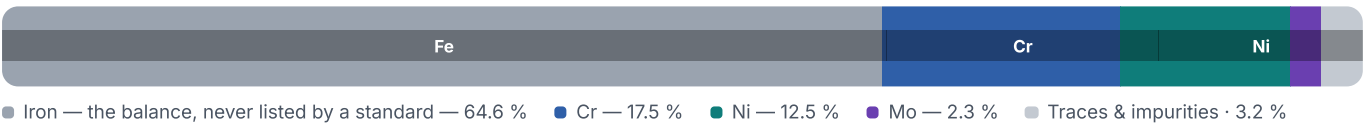
Chemical composition, mechanical and physical property values, and 13 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 13 in 8 regions	PROPERTY VALUES 9 on file
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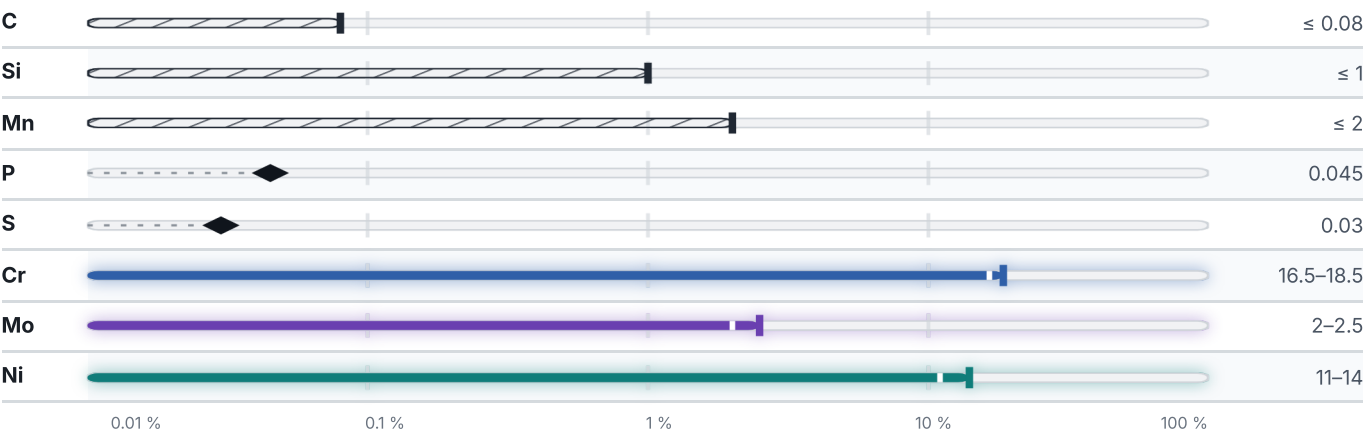
Chemical composition

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	7.85	g/cm³

Designations across standards

13 designations · 1 documented as identical

United States		3	Russia / CIS		2
S31640	uns		08Ch16N13M2B		gost
316 Cb	aisi-sae		08KH16N13M2B		gost
S31640	aisi-sae		United Kingdom		1
Europe		2	318 S 17		bs
G-X 10 CrNiMoNb 18 10	This grade's own name	din-en	Spain		1
X6CrNiMoNb17-12-2		din-en	F.3536		une
France		2	China		1
Z6CNDNb17-12	afnor		06Cr17Ni12Mo2Nb		gb
Z6CNDNb18-12	afnor		Serbia		1
			Č.4583		srps

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 G-X 10 CrNiMoNb 18 10

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	1.4580	Aug 20, 2026