

MATERIAL NUMBER 1.4922 · CLASS 1.4

20X12MHΦ-Ш

Material no. 1.4922

also listed as X20CrMoV11-1

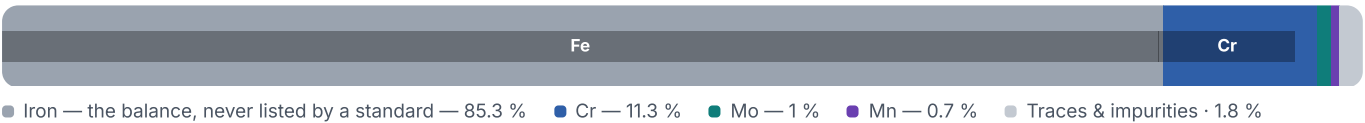
Chemical composition, mechanical and physical property values, and 16 standard designations from 8 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 16 in 8 regions	PROPERTY VALUES 12 on file
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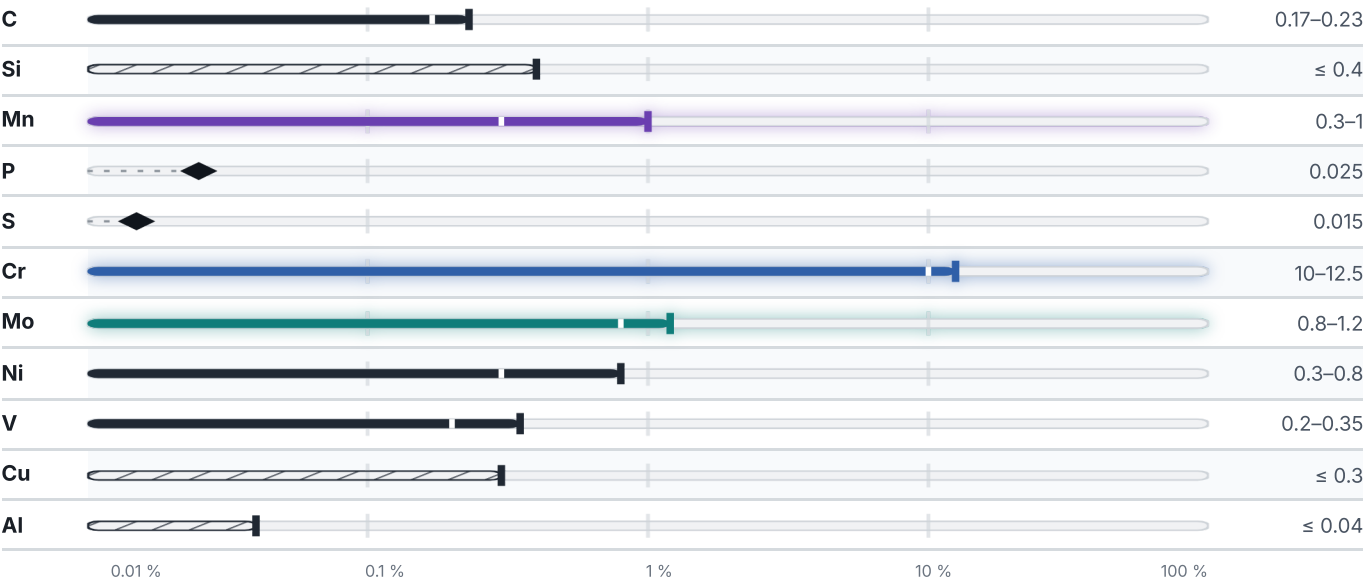
Chemical composition

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

16 designations · 2 documented as identical

Europe	4	Poland	2
1.4922	din-en	20H12M1F	pn
X20CrMoV11-1	din-en	X20CrMoV121	pn
X20CrMoV12-1	din-en		
X22CrMoV12-1	din-en	International	1
		X20CrMoNV11-1-1	iso
Russia / CIS	4		
20Ch11MNF	gost	China	1
20Ch12MNF-Sh	gost	1Cr11MoV	gb
20X11MHΦ	gost		
20X12MHΦ-Ш	gost	Italy	1
		X20CrMoNi1201	uni
Czechia	2		
17 134	csn	Sweden	1
422 916	csn	2317	ss

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 20X12MHΦ-Ш

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

MATERIAL NO.

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ISSUED

Aug 20, 2026