

MATERIAL NUMBER 1.4916 · CLASS 1.4

1.4916

Chemical composition, mechanical and physical property values, and 10 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 4 regions	PROPERTY VALUES 12 on file
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Chemical composition

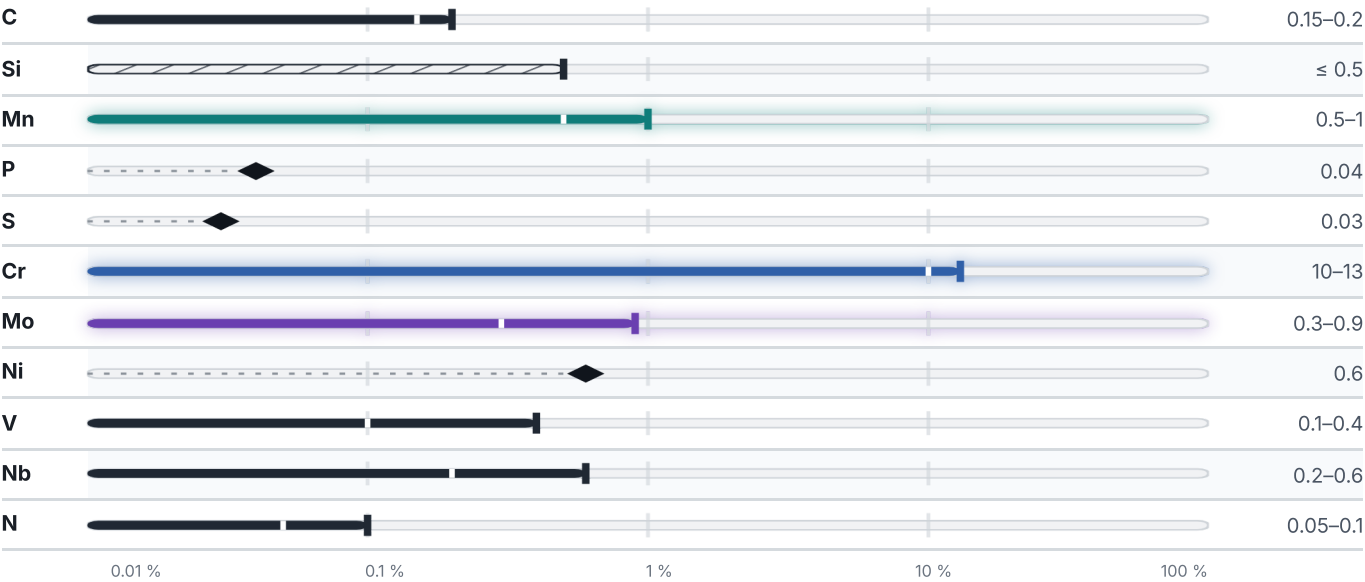
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 85.1 % ● Cr — 11.5 % ● Mn — 0.8 % ● Mo — 0.6 % ● Traces & impurities · 2.1 %

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

10 designations · 1 documented as identical

Russia / CIS	4	International	2
18Ch11MNFB	gost	MM12G	iso
18X11MHΦБ	gost	X18CrMnMoNbVN12	iso
2X11MΦБH	gost		
EP291	gost	Europe	1
		X18CrMnMoNbVN12	This grade's own name din-en
France	3		
56T5	afnor		
Z20CDNbV11	afnor		
Z21CDNbV11	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 1.4916

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	1.4916	Aug 20, 2026