

MATERIAL NUMBER 1.4116 · CLASS 1.4

Č.4770

Material no. 1.4116

also listed as X45CrMoV15

Chemical composition, mechanical and physical property values, and 13 standard designations from 7 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.7 g/cm ³	13 in 7 regions	9 on file

Chemical composition

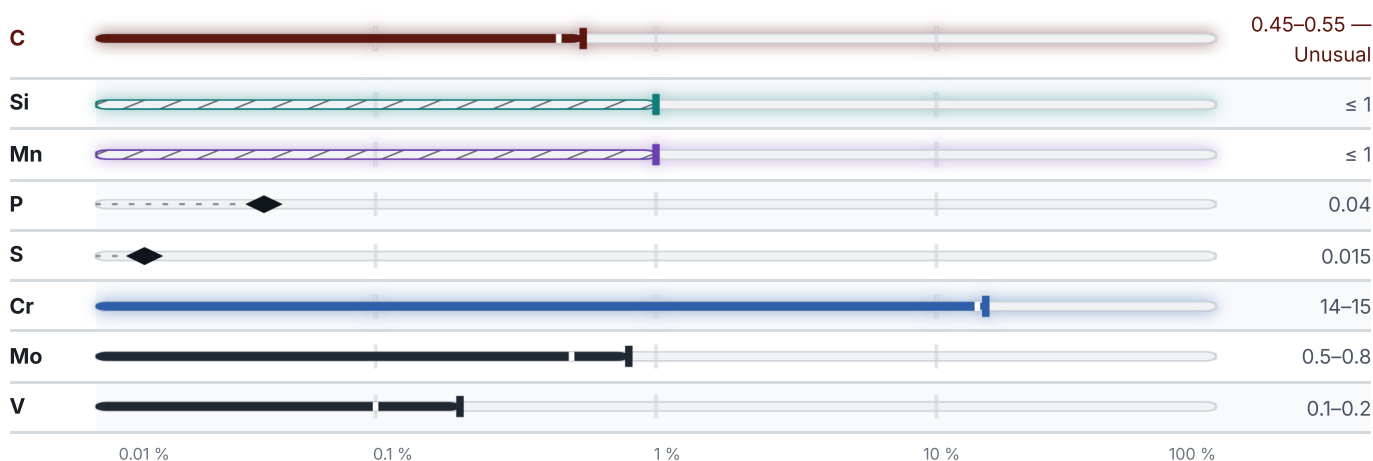
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 82.1 % ● Cr — 14.5 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 1.4 %

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: Ni.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	280

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm³

Designations across standards

13 designations · 2 documented as identical

Russia / CIS	4	Spain	1
50Ch14MF	gost	F3422	une
50Ch15MF	gost		
50X14MΦ	gost	Czechia	1
50X15MΦ	gost	17136	csn
France	3	Serbia	1
Z50CD14	afnor	Č.4770	srps
Z50CD15	afnor		
Z50CD15CI	afnor	Romania	1
		T40NiCr130	stas
Europe	2		
X45CrMoV15	This grade's own name	din-en	
X50CrMoV15	This grade's own name	din-en	

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 Č.4770

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	1.4116	Aug 20, 2026