

MATERIAL NUMBER 1.4718 · CLASS 1.4

VM11

Material no. 1.4718

also listed as G-X 45 CrSi 9 3

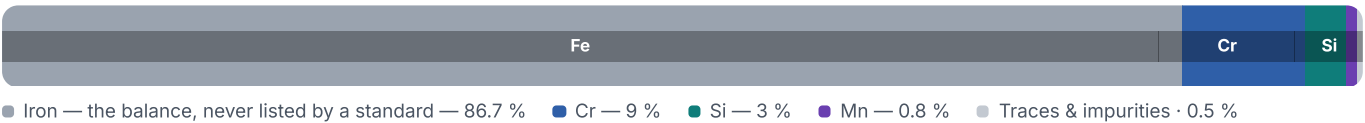
Chemical composition, mechanical and physical property values, and 45 standard designations from 16 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 45 in 16 regions	PROPERTY VALUES 8 on file
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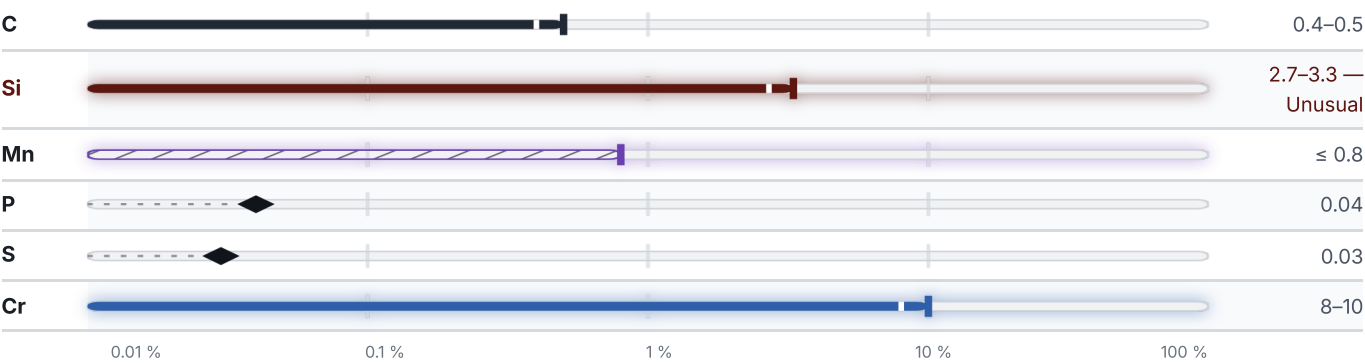
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	

Designations across standards

45 designations · 3 documented as identical

Spain		8	China		4
F.322	une		4Cr9Si2		gb
F.322 (s	une		4Cr9Si8		gb
F.3220	une		X45CrSi93		gb
F.3220-X 4 ScrSi 09-03	une		ZG40Cr9Si2		gb
Mo)	une				
X45CrSi09-03	une		Italy		3
X45CrSi9-3	une		EVM11		uni
X4ScrSi09-03	une		VM11		uni
			X45CrSi8		uni
Russia / CIS		5	Bulgaria		3
40Ch9S2	gost		4Ch9S2		bds
40KH9S2	gost		4Ch9S3		bds
40KH9S2L	gost		X45CrSi9-3		bds
40X9C2	gost				
4X9C2	gost		France		2
Europe		4	X45CrSi9-3		afnor
1.4718	din-en		Z45CS9		afnor
4Cr9Si8	din-en				
G-X 45 CrSi 9 3	din-en	This grade's own name	Japan		2
X45CrSi9-3	din-en		SUH1		jis
			SUH2		jis
United States		4	International		1
S65007	uns	This grade's own name	X50CrSi8-2		iso
HNV 3	aisi-sae	This grade's own name			
HW3	aisi-sae		Czechia		1
S65007	aisi-sae		17115		csn
United Kingdom		4	Poland		1
401S45	bs		H9S2		pn
401S45EN52	bs				
En 52	bs		Hungary		1
X45CrSi9-3	bs		SZ3		msz

Romania	1	South Korea	1
45SiCr90	stas	STR1	ks

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 VM11

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	1.4718	Aug 20, 2026