

MATERIAL NUMBER 1.4718 · CLASS 1.4

40KH9S2L

Material no. 1.4718

also listed as G-X 45 CrSi 9 3

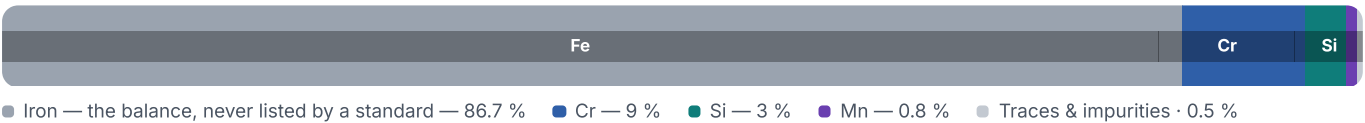
Chemical composition, mechanical and physical property values, and 45 standard designations from 16 regions.

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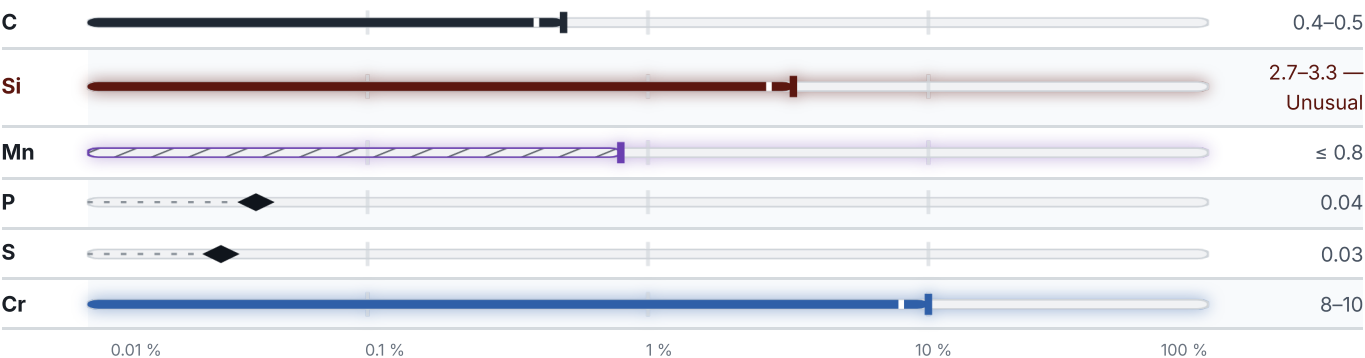
Chemical composition

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/cm ³

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 This grade's own name	din-en	Japan	2
X45CrSi9-3	din-en	SUH1	jis
		SUH2	jis
United States	4	International	1
S65007 This grade's own name	uns	X50CrSi8-2	iso
HNV 3 This grade's own name	aisi-sae		
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 40KH9S2L

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