

MATERIAL NUMBER 1.3247 · CLASS 1.3

HS2-9-1-8

Material no. 1.3247

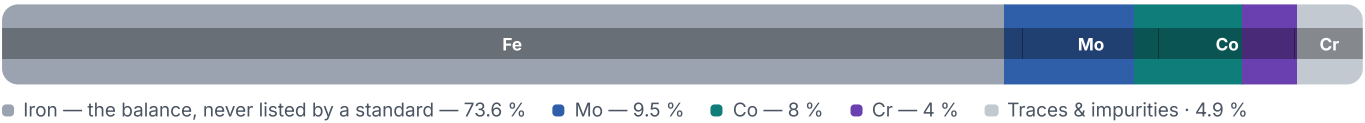
Chemical composition, mechanical and physical property values, and 28 standard designations from 14 regions.

DENSITY 8.01 g/cm³	OTHER DESIGNATIONS 28 in 14 regions	PROPERTY VALUES 11 on file
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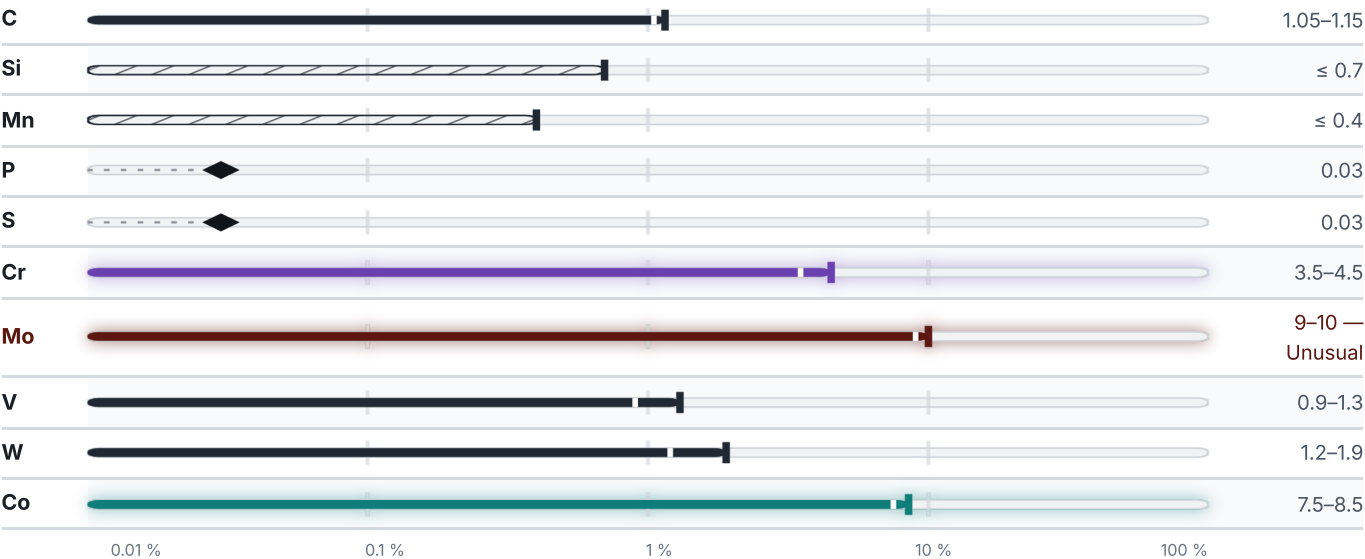
Chemical composition

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.

Mechanical properties

3 values across 3 conditions

CONDITION · DIMENSION	HB
Annealed	277
SOFT ANNEALED	HB
Soft annealed	277
CONDITION · DIMENSION	HB
(annealing) , GOST 19265-73	285

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8.01	g/cm ³

Heat treatment

4 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Preheating	800–900 °C	—
Quenching	1170–1190 °C	—
Tempering	550 °C	—
Annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
Annealing	Temperature not stated	—

Designations across standards

28 designations · 5 documented as identical

United States		8	Spain		2
T11342	This grade's own name	uns	7-4-2-5		une
T11342 / T11842		uns	F.5615		une
M30		aisi-sae			
M42	This grade's own name	aisi-sae	International		1
M47		aisi-sae	HS2-9-1-8		iso
T11330		aisi-sae			
T11342		aisi-sae	Japan		1
T11347		aisi-sae	SKH59		jis
Russia / CIS		4	China		1
R2AM9K		gost	W2Mo9Cr4VCo8		gb
R2M10K8		gost			
R2AM9K5		gost	Italy		1
P2AM9K5		gost	HS2-9-1-8		uni
Europe		2	Poland		1
HS2-9-1-8	This grade's own name	din-en	SK8M		pn
S 2-10-1-8	This grade's own name	din-en			
United Kingdom		2	Hungary		1
BM42		bs	R11		msz
BT42		bs			
France		2	Bulgaria		1
HS2-9-1-8		afnor	R2M8K5F2		bds
Z110DKCWV09-08-04-02-01		afnor	South Korea		1
			SKH59	This grade's own name	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 HS2-9-1-8

[Start an enquiry](#)

Quotation, availability, mill certificate or a technical question — directly on the material page.

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

1.3247

ISSUED

Aug 20, 2026