

MATERIAL NUMBER 1.3318 · CLASS 1.3

1.3318

Chemical composition, mechanical and physical property values, and 8 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 8 in 5 regions	PROPERTY VALUES 11 on file
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Chemical composition

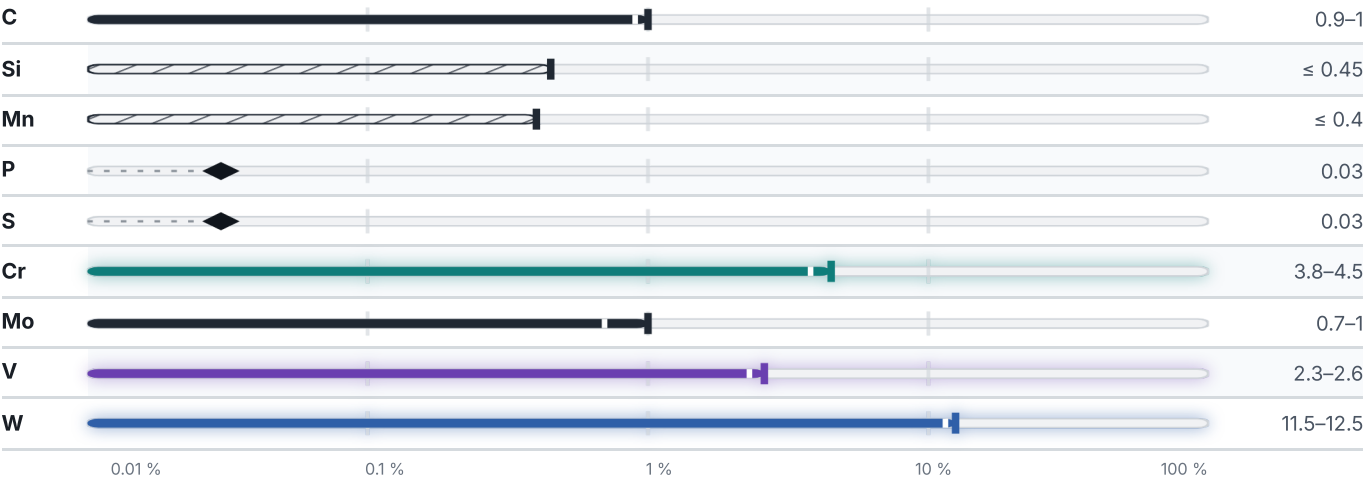
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 78.7 % ● W — 12 % ● Cr — 4.2 % ● V — 2.5 % ● Traces & impurities · 2.7 %

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

CONDITION · DIMENSION	HB
(annealing) , GOST 19265-73	269

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³
Transformation point Ac1	825	°C

Designations across standards

8 designations · 2 documented as identical

Europe	2	Czechia	2
HS12-1-2 This grade's own name	din-en	19 802	csn
S12-1-2 This grade's own name	din-en	19810	csn
Russia / CIS	2	Japan	1
R12F3	gost	SKH6	jis
P12Φ3	gost	Poland	1
		SW12	pn

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 1.3318

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

MATERIAL NO.

1.3318

ISSUED

Aug 20, 2026