

MATERIAL NUMBER 1.2510 · CLASS 1.2

01

Material no. 1.2510

also listed as 100MnCrW4

Chemical composition, mechanical and physical property values, and 16 standard designations from 13 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 16 in 13 regions	PROPERTY VALUES 9 on file
--	---	-------------------------------------

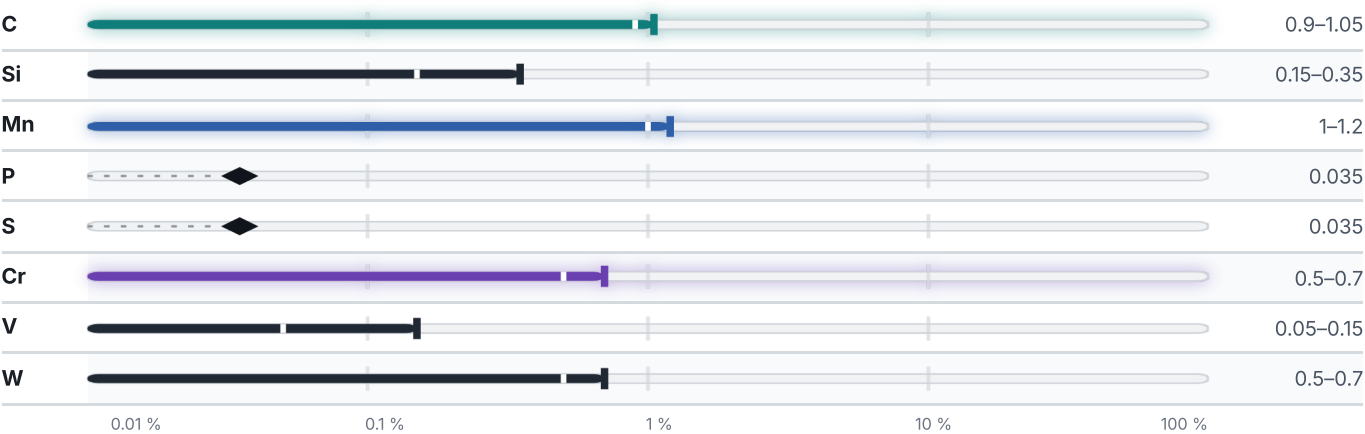
Chemical composition

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

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Heat treatment

3 regimes

STEP	TEMPERATURE	MEDIUM
Quenching	Temperature not stated	—
Quenching	800–830 °C	Oil
Annealing	Temperature not stated	—

Designations across standards

16 designations · 3 documented as identical

France	3	Japan	1
100MCW5	afnor	SKS 3	jis
90MnWCrV5	afnor		
90MWCV5	afnor	China	1
		9CrWMn	gb
United States	2	Russia / CIS	1
T31501 This grade's own name	uns	9KhVG	gost
O1 This grade's own name	aisi-sae		
Europe	1	Italy	1
100MnCrW4 This grade's own name	din-en	100MnCrW4KU	uni
United Kingdom	1	Sweden	1
BO1	bs	2140	ss
Spain	1	Czechia	1
F.5220	une	19 314	csn
International	1	Poland	1
95MnWCr5	iso	NM WV	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 O1

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

Start an enquiry