

MATERIAL NUMBER 1.8519 · CLASS 1.8

1.8519

Chemical composition, mechanical and physical property values, and 8 standard designations from 6 regions.

DENSITY 7.73 g/cm³	OTHER DESIGNATIONS 8 in 6 regions	PROPERTY VALUES 9 on file
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Chemical composition

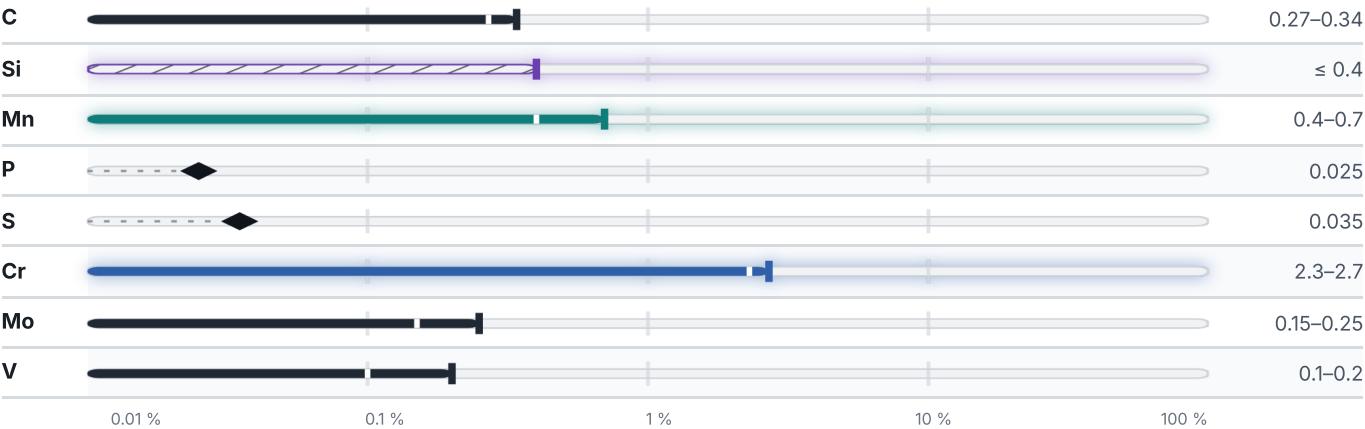
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 95.8 % ● Cr — 2.5 % ● Mn — 0.6 % ● Si — 0.4 % ● Traces & impurities · 0.7 %

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

9 values across 2 conditions

QUENCHED AND TEMPERED	RM N/mm ²	A %
16 – 40	1100–1300	9
40 – 100	1000–1200	10
100 – 160	900–1100	11
160 – 250	850–1050	12
SOFT ANNEALED		HB
Soft annealed		248

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.73	g/cm ³

Designations across standards

8 designations · 1 documented as identical

Russia / CIS	2	Czechia	1
30Ch3MF	gost	15330	csn
30X3MΦ	gost	Slovakia	1
Poland	2	15 330	stn
30H2MF	pn	Serbia	1
33H3MF	pn	Č.4730.4	srps
Europe	1		
31CrMoV9	This grade's own name	din-en	

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 1.8519

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

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ISSUED

Aug 20, 2026