

MATERIAL NUMBER 1.3255 · CLASS 1.3

W18Cr4VCo4

Material no. 1.3255

also listed as HS18-1-2-5

Chemical composition, mechanical and physical property values, and 25 standard designations from 14 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8.7 g/cm ³	25 in 14 regions	11 on file

Chemical composition

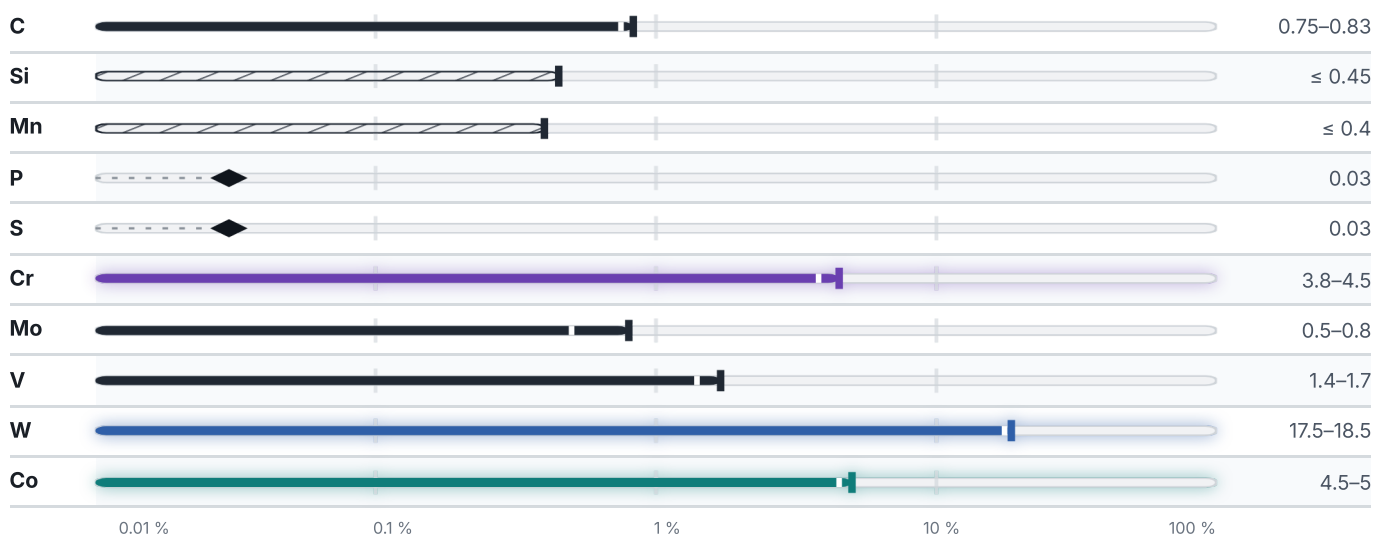
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 69.2 % ● W — 18 % ● Co — 4.8 % ● Cr — 4.2 % ● Traces & impurities · 3.9 %

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
Annealed	269

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8.7	g/cm³

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

25 designations · 5 documented as identical

Europe			3	Russia / CIS			2
1.3255		din-en		R18K5F2			gost
HS18-1-2-5	This grade's own name	din-en		P18K5Φ2			gost
S18-1-2-5	This grade's own name	din-en		Italy			2
United States			3	HS18-1-1-5			uni
T12004	This grade's own name	uns		X78WCo1805KU			uni
T12004		aisi-sae		United Kingdom			1
T4	This grade's own name	aisi-sae		BT4			bs
France			3	Japan			1
18-05-04-01		afnor		SKH3			jis
Z80WKCV		afnor		Czechia			1
Z80WKCV18-05-04-01		afnor		19 855			csn
Spain			3	Serbia			1
18-1-1-5		une		Č.6980			srps
F.5530		une		Bulgaria			1
HS18-1-1-5		une		R18K5F2			bds
China			2	Austria			1
W18Cr4VCo4		gb		S305			onorm
W18Cr4VCo5		gb					

South Korea	1
SKH3 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 W18Cr4VCo4

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	1.3255	Aug 20, 2026