

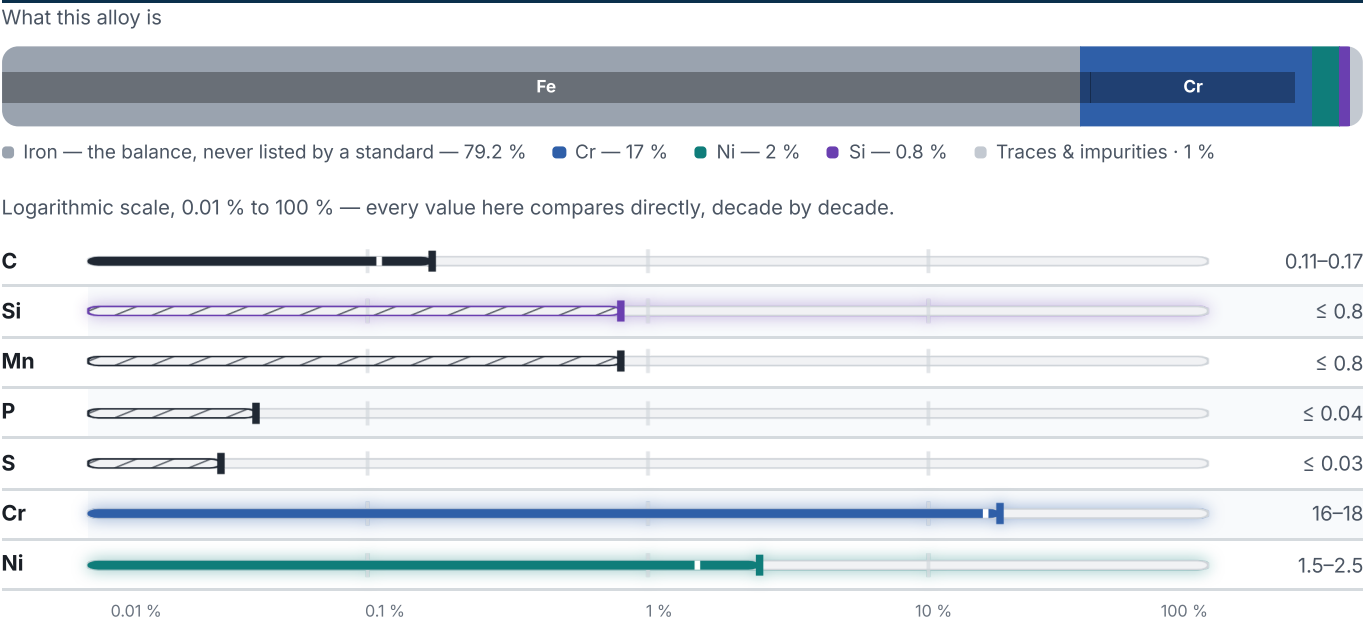
14Cr17Ni2

Chemical composition, mechanical and physical property values, and 1 standard designations from 1 regions.

ELASTIC MODULUS 193 GPa	OTHER DESIGNATIONS 1 in 1 regions	PROPERTY VALUES 12 on file
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Chemical composition

Mass fraction in %



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: Mo.

Physical properties

5 values

CONDITION · DIMENSION	E GPa	ALPHA 10 ^{^-6} /K	LAMBDA W/(m·K)	CP J/(kg·K)
20	200	—	—	—

CONDITION · DIMENSION	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)
100	195	10	20.2	—
200	185	10	—	—
300	175	—	—	—
400	170	11	—	—
500	—	12.4	25.1	460
PROPERTY		VALUE		UNIT
Elastic modulus		193	GPa	
Thermal expansion coefficient		10.3	10 ⁻⁶ /K	
Thermal conductivity		21	W/(m·K)	
Specific heat capacity		460	J/(kg·K)	
Electrical resistivity		720	nΩ·m	

Heat treatment

6 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—
Annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
Tempering	Temperature not stated	Air
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Solution annealing	950–1040 °C	Oil
Tempering	Temperature not stated	—
Ageing	275–350 °C	Air
Annealing	650–750 °C	Air

Designations across standards

1 designations · 1 documented as identical

China	1
14Cr17Ni2 This grade's own name	gb

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 14Cr17Ni2
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	—	Aug 15, 2026