

008Cr30Mo2

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

ELASTIC MODULUS 210 GPa	OTHER DESIGNATIONS 1 in 1 regions	PROPERTY VALUES 15 on file
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Chemical composition

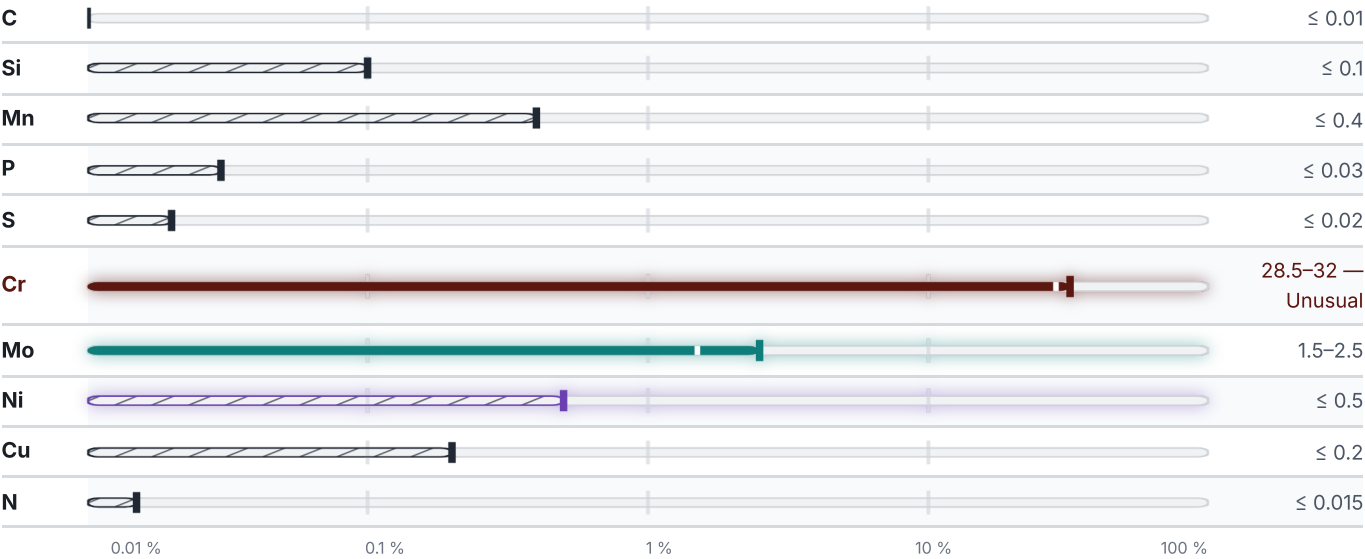
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 66.5 % ● Cr — 30.3 % ● Mo — 2 % ● Ni — 0.5 % ● Traces & impurities · 0.8 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Physical properties

5 values

CONDITION · DIMENSION	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)
20	220	—	—	—
100	215	9.7	26	—
200	210	—	—	—
300	205	—	—	—
400	195	—	—	—
500	—	—	—	500

PROPERTY	VALUE	UNIT
Elastic modulus	210	GPa
Thermal expansion coefficient	11	10 ⁻⁶ /K
Thermal conductivity	17.8–100	W/(m·K)
Specific heat capacity	460	J/(kg·K)
Electrical resistivity	560	nΩ·m

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

1 designations · 1 documented as identical

China	1
008Cr30Mo2 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 008Cr30Mo2

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

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
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MATERIAL NO.
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ISSUED
Aug 15, 2026