

MATERIAL NUMBER 1.6580 · CLASS 1.6

30Cr2Ni2Mo

Material no. 1.6580

also listed as 30CrNiMo8

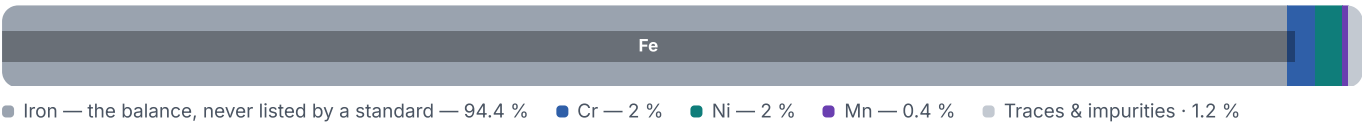
Chemical composition, mechanical and physical property values, and 29 standard designations from 14 regions.

DENSITY 7.76 g/cm³	OTHER DESIGNATIONS 29 in 14 regions	PROPERTY VALUES 12 on file
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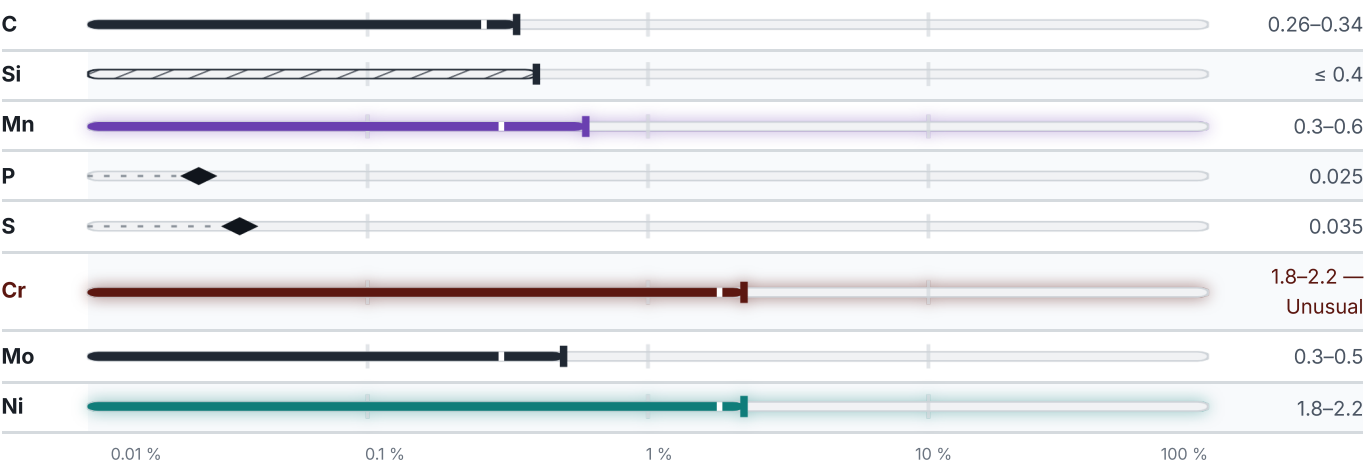
Chemical composition

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

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

Mechanical properties

12 values across 4 conditions

QUENCHED AND TEMPERED · ROUND PRODUCTS					A % · Lo = 5,65 √So
≤ 16					9
16 – 40					9
40 – 100					10
100 – 160					11
160 – 250					12
SOFT ANNEALED					HB
Soft annealed					248–255
QUENCHING AND DRAWING	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 15	980	785	10	45	780
CONDITION · DIMENSION					HB
30KH2MA (30XH2MA) (annealing) , GOST 4543-71					241

Physical properties

4 values

CONDITION · DIMENSION		E GPa
20		204
100		201
200		194
300		186
400		182
500		171
600		159
PROPERTY	VALUE	UNIT
Density	7.76	g/cm³
Transformation point Ac1	730	°C
Transformation point Ac3	775	°C

Technological properties

PROPERTY	VALUE	UNIT
Flake sensitivity	predisposed	

Heat treatment

1 regimes

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

Designations across standards

29 designations · 3 documented as identical

United States / Aerospace		5	France		2
6359	ams		30CND8		afnor
6409	ams		30NCD8	This grade's own name	afnor
6414	ams		Japan		2
6415	ams				
6454	ams				
Russia / CIS		4	SNCM431		jis
30KHN2MA	gost		SNCM439		jis
30XH2MA	gost		Poland		2
30XHMA	gost		30H2N2A		pn
3KH3M3F	gost		30H2N2M		pn
United States		3	Europe		1
G43400	uns		30CrNiMo8	This grade's own name	din-en
4340	aisi-sae		International		1
A829	astm		31CrNiMo8		iso
Czechia		3	China		1
16430VN	csn		30Cr2Ni2Mo		gb
16430ŽH	csn		Serbia		1
16435	csn				
United Kingdom		2	Č.5432		srps
823M30	bs		Croatia		1
823M40	This grade's own name	bs	Č.5432		hrn
			Hungary		1
			NCMo 6		msz

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 30Cr2Ni2Mo

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Sep 8, 2026