

MATERIAL NUMBER 1.4308 · CLASS 1.4

1.4308

Chemical composition, mechanical and physical property values, and 29 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 29 in 10 regions	PROPERTY VALUES 9 on file
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Chemical composition

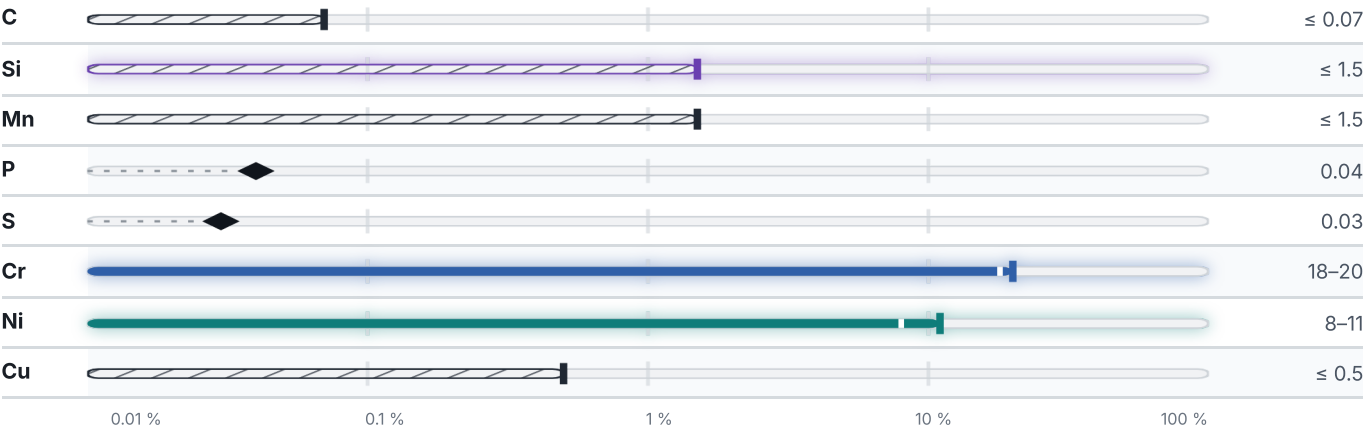
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 67.9 % ● Cr — 19 % ● Ni — 9.5 % ● Si — 1.5 % ● Traces & impurities · 2.1 %

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: Mo.

Mechanical properties

9 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	HB
Casting	440	185	30	–
Solution heat treatment	–	–	–	183

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Casting	450	180	25	35	1000

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

29 designations · 7 documented as identical

United States11		France3	
J92590	This grade's own nameuns	Z6CN18.10M	afnor
J92600	This grade's own nameuns	Z6CN18.10M	afnor
J92650	This grade's own nameuns	Z6CN19.9M	afnor
J92710	This grade's own nameuns		
304H	This grade's own nameaisi-sae	Japan3	
CF-8	aisi-sae	SCS 13A	jis
J92590	aisi-sae	SCS 13X	jis
J92600	aisi-sae	SCS13	jis
J92650	aisi-sae		
J92710	aisi-sae	United Kingdom1	
J92730	aisi-sae	304C15	bs
Russia / CIS4		Spain1	
07Ch18N9L	gost	F.8411	une
07KH18N9L	gost		
07X18H9Л	gost	Italy1	
Sv-07Kh18N9TYu	gost	GX6CrNi20-10	uni
Europe3		Sweden1	
1.4308	din-en	2333	ss
G-X 6 CrNi 18 9	This grade's own namedin-en		
GX5CrNi19-10	This grade's own namedin-en	Czechia1	
		422930	csn

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 1.4308

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

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ISSUED

Aug 20, 2026