

MATERIAL NUMBER 1.4009 · CLASS 1.4

S41080

Material no. 1.4009

also listed as X8Cr14

Chemical composition, mechanical and physical property values, and 5 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 5 in 3 regions	PROPERTY VALUES 7 on file
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Chemical composition

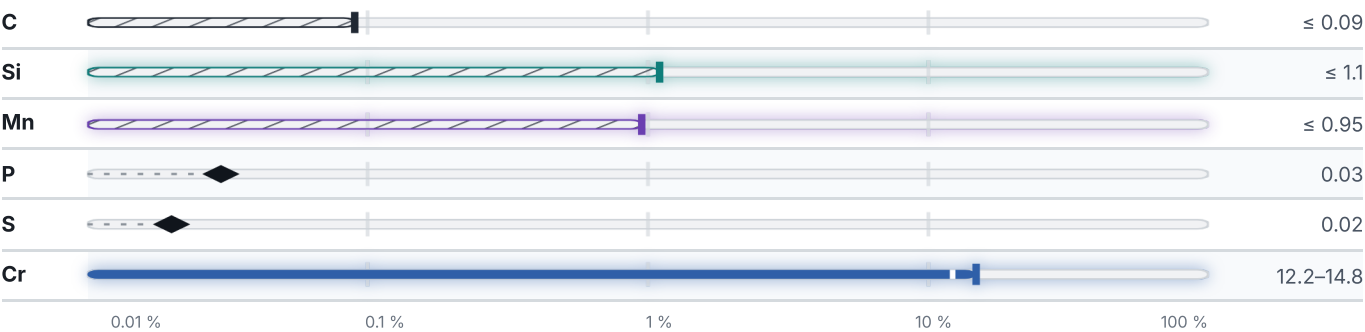
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 84.3 % ● Cr — 13.5 % ● Si — 1.1 % ● Mn — 1 % ● Traces & impurities · 0.1 %

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: Ni, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

5 designations · 2 documented as identical

United States3		Europe1	
S41080	This grade's own nameuns	X8Cr14	This grade's own namedin-en
403	aisi-sae		
410 S	aisi-sae	Czechia1	
		17 020	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 S41080

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	1.4009	Aug 20, 2026