

MATERIAL NUMBER 1.4011 · CLASS 1.4

J91171

Material no. 1.4011

also listed as GX12Cr12

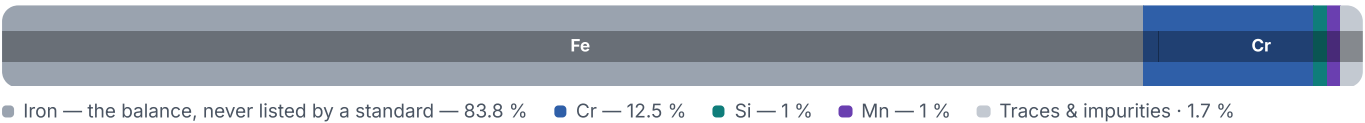
Chemical composition, mechanical and physical property values, and 38 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 38 in 6 regions	PROPERTY VALUES 9 on file
--	--	-------------------------------------

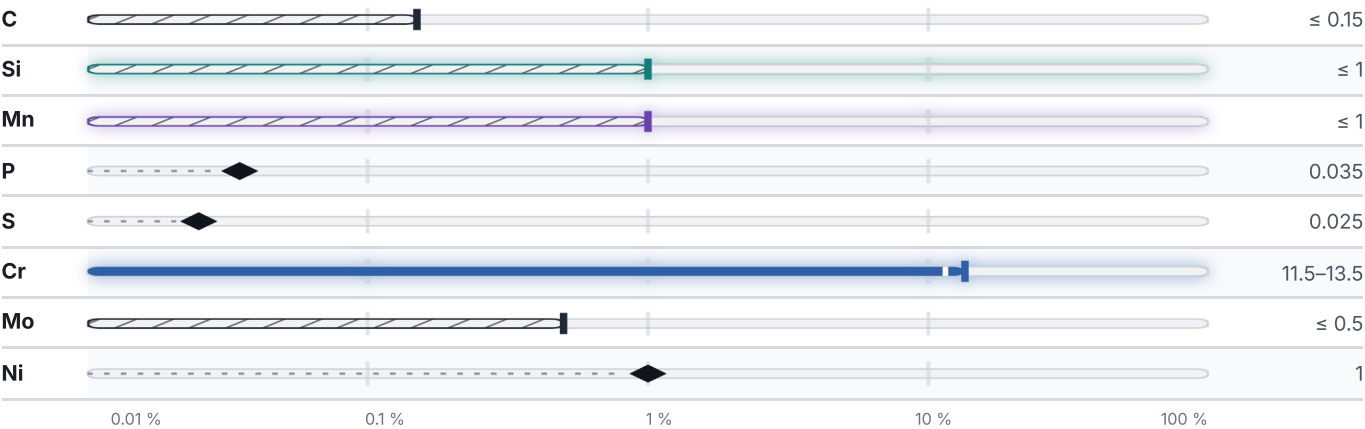
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

38 designations · 6 documented as identical

United States		30	Europe		2
J91150	This grade's own name	uns	GX12Cr12	This grade's own name	din-en
J91151	This grade's own name	uns	GX12Cr13	This grade's own name	din-en
J91171	This grade's own name	uns	United States / Aerospace		
J91201	This grade's own name	uns	5503		ams
S43000		uns	5627		ams
420		aisi-sae	Japan		
430		aisi-sae	SCS 1		jis
51430		aisi-sae	SCS 1X		jis
J91150		aisi-sae	France		
J91151		aisi-sae	Z12 C 13 M		afnor
J91171		aisi-sae	Brazil		
A1012		astm	430		abnt
A182		astm			
A240		astm			
A268		astm			
A276		astm			
A314		astm			
A473		astm			
A479		astm			
A493		astm			
A511		astm			
A554		astm			
A580		astm			
A815		astm			
F2215		astm			
F2281		astm			
F593		astm			
F594		astm			
F738		astm			
F836		astm			

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 J91171

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

[Start an enquiry](#)

DATASHEET ONLINE

[View the material page](#)

GRADE SEARCH

[Search all grades](#)

MATERIAL NO.

1.4011

ISSUED

Aug 20, 2026