

MATERIAL NUMBER 1.4011 · CLASS 1.4

1.4011

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
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Chemical composition

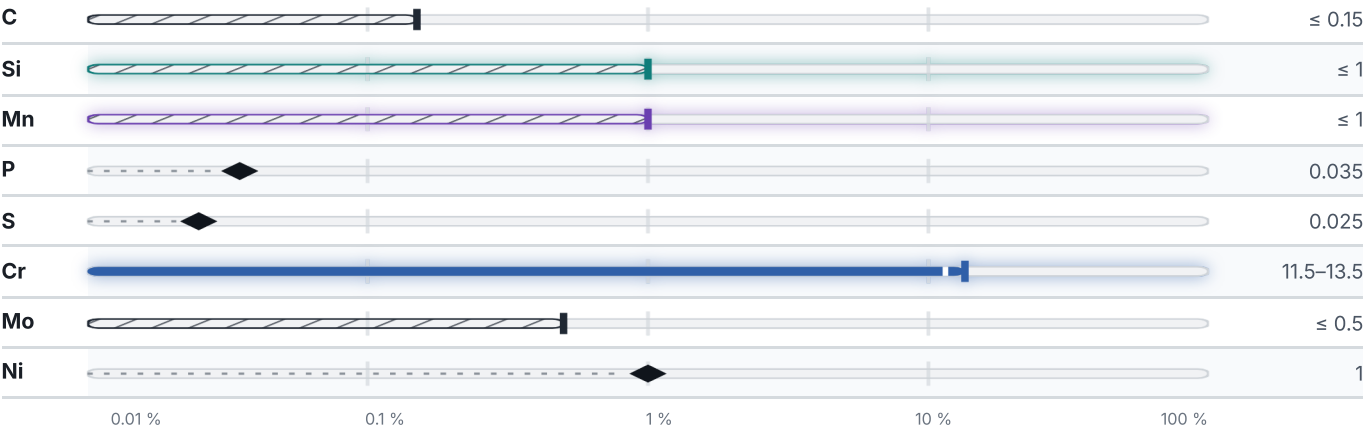
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 83.8 % ● Cr — 12.5 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 1.7 %

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			2
J91201	This grade's own name	uns	5503		ams	
S43000		uns	5627		ams	
420		aisi-sae	Japan			2
430		aisi-sae	SCS 1		jis	
51430		aisi-sae	SCS 1X		jis	
J91150		aisi-sae	France			1
J91151		aisi-sae	Z12 C 13 M		afnor	
J91171		aisi-sae	Brazil			1
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 1.4011

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

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ISSUED

Aug 20, 2026