

MATERIAL NUMBER 1.4313 · CLASS 1.4

X6CrNi304

Material no. 1.4313

also listed as X 4 CrNi 13 4

Chemical composition, mechanical and physical property values, and 22 standard designations from 7 regions.

DENSITY**7.7** g/cm³**OTHER DESIGNATIONS****22** in 7 regions**PROPERTY VALUES****10** on file

Chemical composition

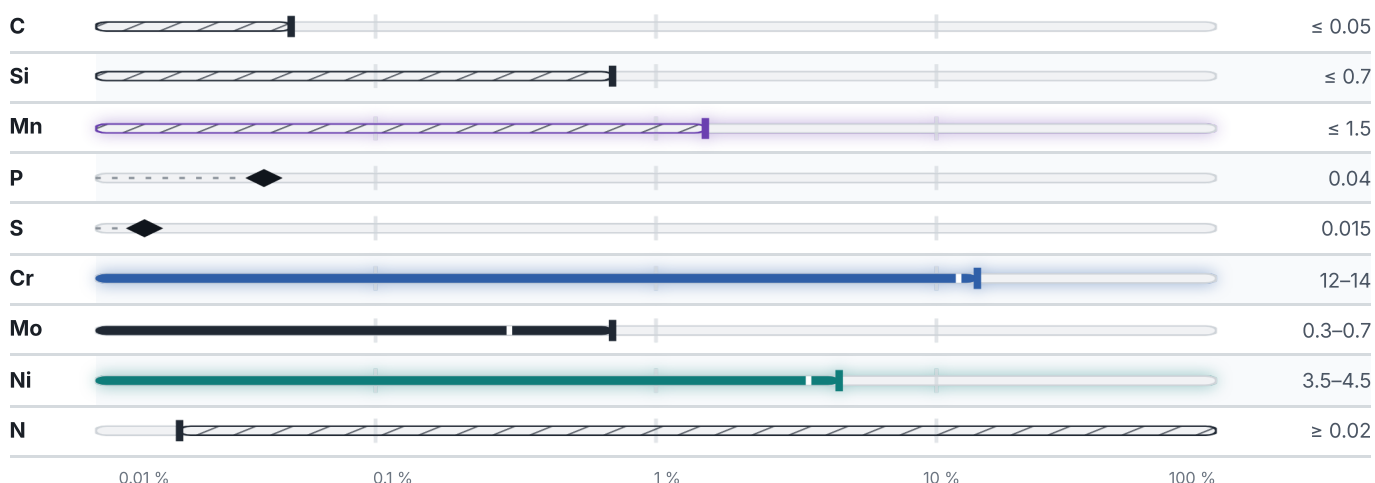
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 80.2 % ● Cr — 13 % ● Ni — 4 % ● Mn — 1.5 % ● Traces & impurities · 1.3 %

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

6 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %	HB
Casting	740	540	13	40	–
Quenched and tempered	–	–	–	–	217–277
SOFT ANNEALED					HB
Soft annealed	320				

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

22 designations · 5 documented as identical

United States		10	France		2
J91540	This grade's own name	uns	Z4CND13.4M		afnor
S41500	This grade's own name	uns	Z6CN13-04		afnor
A182		aisi-sae	Italy		2
CA6-NM		aisi-sae			
J91540		aisi-sae	(G)X6CrNi304		uni
S41500		aisi-sae	X6CrNi304		uni
13Cr-4Ni		astm	Sweden		2
A 182 F6NM 430 F	This grade's own name	astm			
CA6NM		astm	2384		ss
F6NM		astm	2385		ss
Europe		4	United Kingdom		1
1.4313		din-en	425C11		bs
X 4 CrNi 13 4	This grade's own name	din-en	Japan		1
X3CrNiMo13-4	This grade's own name	din-en			
X5CrNi134		din-en	SCS5		jis

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 X6CrNi304

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

Start an enquiry