

MATERIAL NUMBER 1.4546 · CLASS 1.4

3 S.144

Material no. 1.4546

also listed as X5CrNiNb18-10

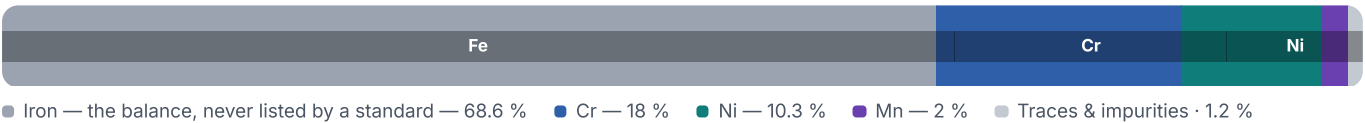
Chemical composition, mechanical and physical property values, and 70 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 70 in 4 regions	PROPERTY VALUES 8 on file
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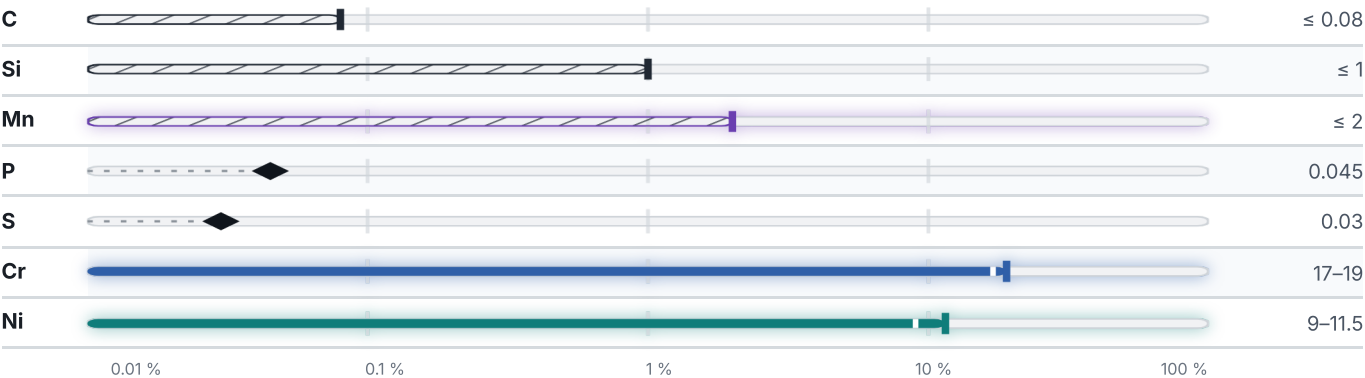
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Mo.

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

70 designations · 7 documented as identical

United States		47	A965		astm
S34700	This grade's own name	uns	F2281		astm
S34800	This grade's own name	uns	F593		astm
S34809	This grade's own name	uns	F594		astm
30347		aisi-sae	F738		astm
30348		aisi-sae	F836		astm
347	This grade's own name	aisi-sae			
348	This grade's own name	aisi-sae			
348H	This grade's own name	aisi-sae			
S34800		aisi-sae			
A1012		astm			
A1049		astm			
A182		astm			
A193		astm			
A194		astm			
A213		astm			
A240		astm			
A249		astm			
A264		astm			
A269		astm			
A276		astm			
A312		astm			
A313		astm			
A314		astm			
A320		astm			
A336		astm			
A358		astm			
A376		astm			
A403		astm			
A409		astm			
A430		astm			
A473		astm			
A479		astm			
A511		astm			
A554		astm			
A580		astm			
A632		astm			
A774		astm			
A778		astm			
A813		astm			
A814		astm			
A943		astm			
			United States / Aerospace		
			5362		ams
			5512		ams
			5556		ams
			5558		ams
			5571		ams
			5575		ams
			5646		ams
			5654		ams
			5674		ams
			5790		ams
			5897		ams
			7490		ams
			United Kingdom		
			2 S.130		bs
			2 S.143		bs
			3 S.144		bs
			347S17		bs
			3S.145		bs
			S.525		bs
			S143		bs
			S144		bs
			S145		bs
			S527		bs
			Europe		
			X5CrNiNb18-10	This grade's own name	din-en

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 3 S.144

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

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1.4546

ISSUED
Aug 20, 2026