

MATERIAL NUMBER 1.4546 · CLASS 1.4

2 S.143

Material no. 1.4546

also listed as X5CrNiNb18-10

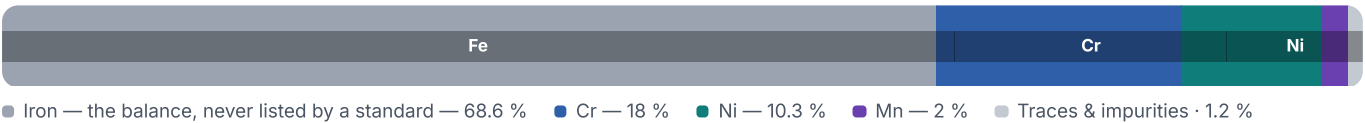
Chemical composition, mechanical and physical property values, and 70 standard designations from 4 regions.

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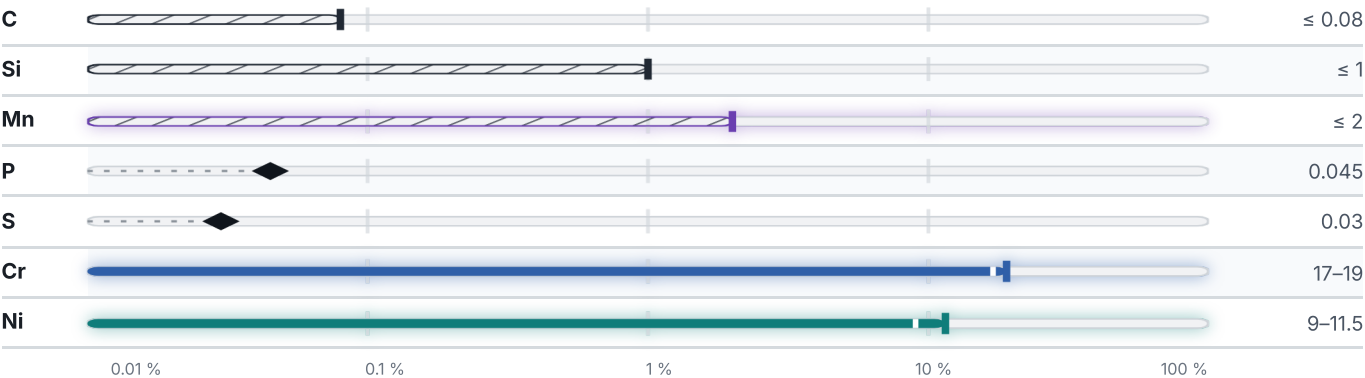
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

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	
				12
			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	
				10
			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	
				1
			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 2 S.143
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.
1.4546

ISSUED
Aug 20, 2026