

MATERIAL NUMBER 1.4545 · CLASS 1.4

X5CrNiCu15-5

Material no. 1.4545

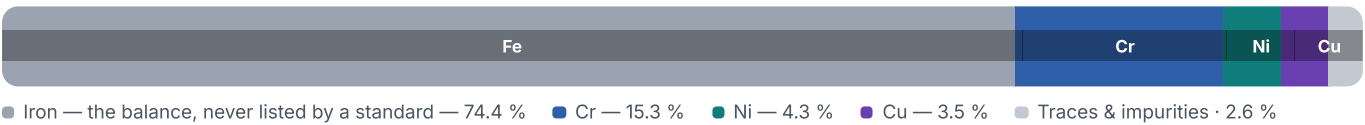
Chemical composition, mechanical and physical property values, and 12 standard designations from 3 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 12 in 3 regions	PROPERTY VALUES 10 on file
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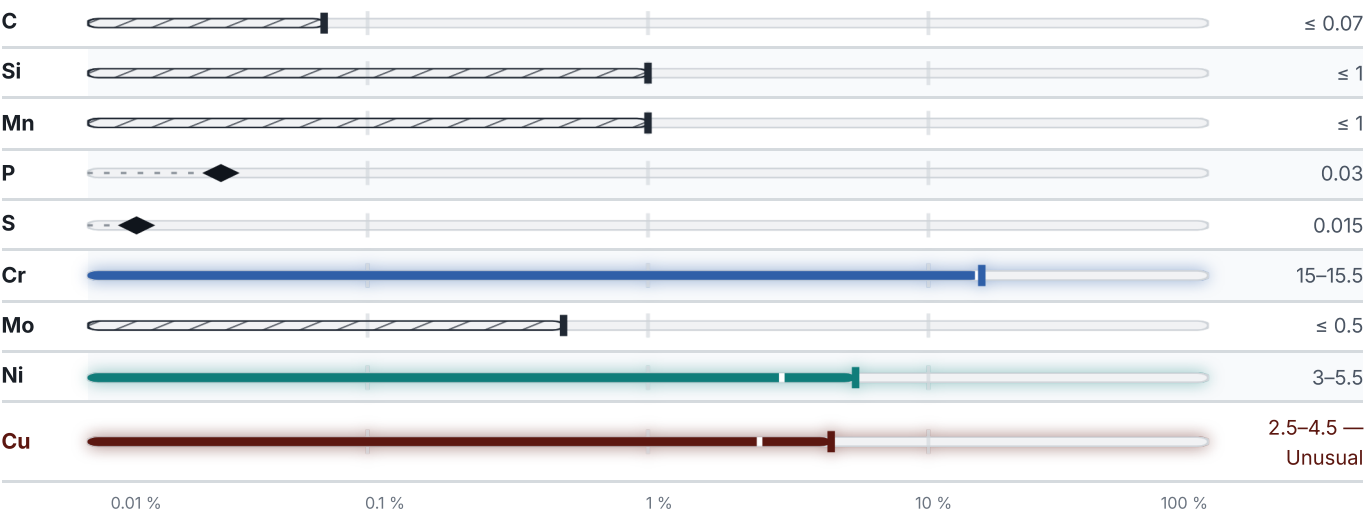
Chemical composition

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

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

12 designations · 3 documented as identical

United States		8	United States / Aerospace		3
S15500	This grade's own name	uns	5659		ams
15-5PH		aisi-sae	5826		ams
XM-12	This grade's own name	aisi-sae	5862		ams
A564		astm			
A564 Type XM-12		astm	Europe		1
A693		astm	X5CrNiCu15-5	This grade's own name	din-en
A705		astm			
A705 Type XM-12		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 X5CrNiCu15-5

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.4545	Aug 20, 2026