

MATERIAL NUMBER 1.3964 · CLASS 1.3

A194 Grade B8

Material no. 1.3964

also listed as X2CrNiMnMoNNb21-16-5-3

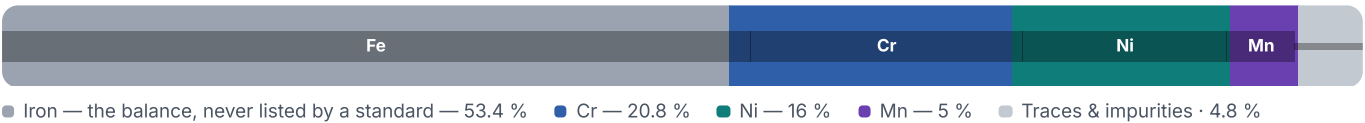
Chemical composition, mechanical and physical property values, and 11 standard designations from 3 regions.

DENSITY 7.9 g/cm³	OTHER DESIGNATIONS 11 in 3 regions	PROPERTY VALUES 11 on file
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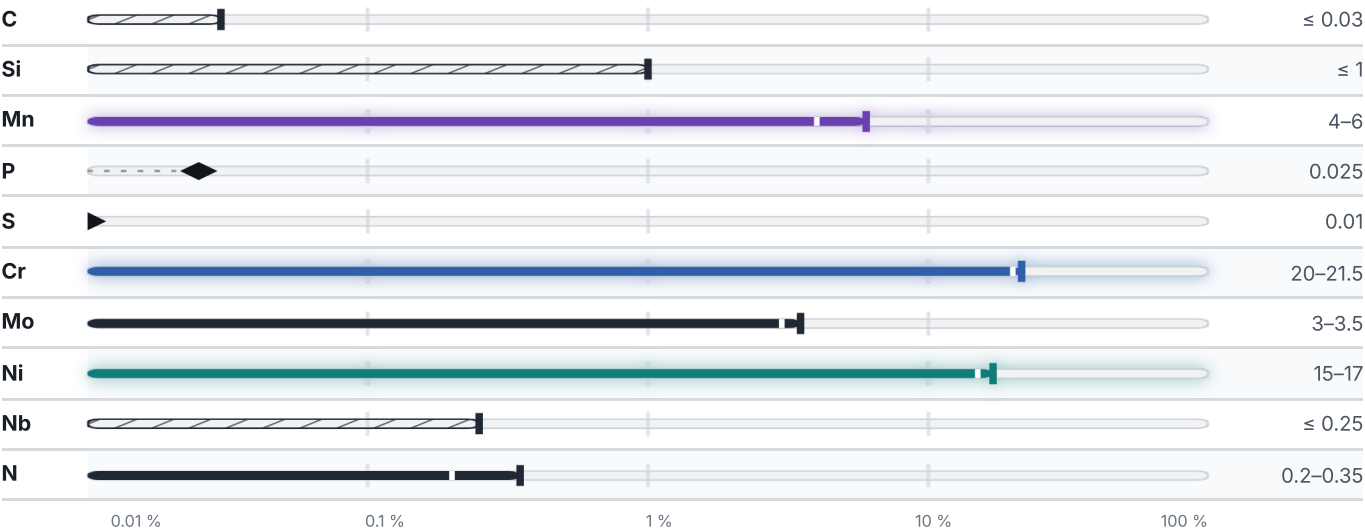
Chemical composition

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	7.9	g/cm ³

Designations across standards

11 designations · 3 documented as identical

United States		9	Europe		1
S20910	This grade's own name	uns	X2CrNiMnMoNNb21-16-5-3	This grade's own name	din-en
XM-19	This grade's own name	aisi-sae	United States / Aerospace		
A193 Grade B8R		astm	5764		ams
A194 Grade B8		astm			
A240		astm			
A276		astm			
A314		astm			
A412		astm			
A479		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 A194 Grade B8

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	1.3964	Aug 20, 2026