

MATERIAL NUMBER 1.3965 · CLASS 1.3

X8CrMnNi18-8

Material no. 1.3965

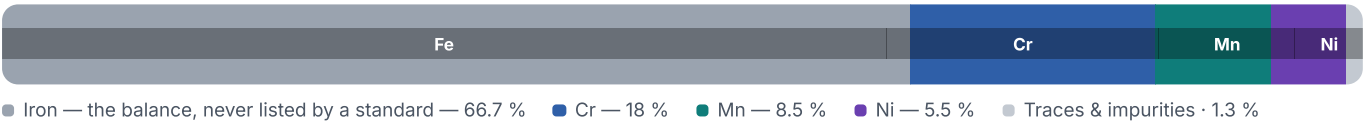
Chemical composition, mechanical and physical property values, and 24 standard designations from 8 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 24 in 8 regions	PROPERTY VALUES 9 on file
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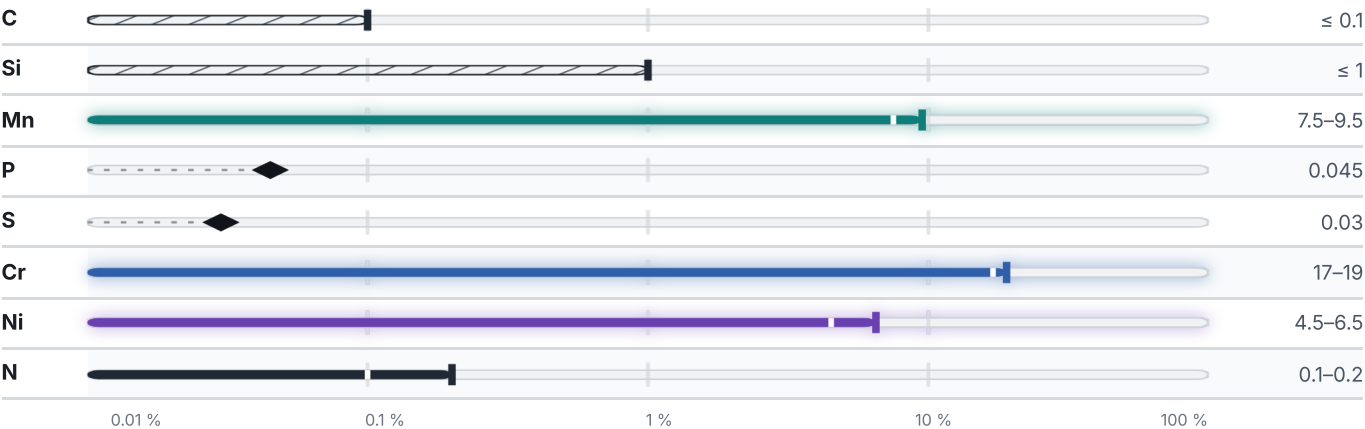
Chemical composition

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.

Mechanical properties

13 values across 5 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Bar, GOST 5949-75	690	345	45	55

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
Sheet trick, GOST 7350-77	690	345	40

CONDITION · DIMENSION	RM N/mm ²	A5 %
Sheet thin, GOST 5582-75	690	40

CONDITION · DIMENSION	RM N/mm ²	A5 %
Sheet thin cold-worked , GOST 5582-75	980	15

CONDITION · DIMENSION	RM N/mm ²	A5 %
Sheet thin, GOST 4986-79	640	20–40

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

24 designations · 5 documented as identical

United States	14	Russia / CIS	4
S20200 This grade's own name	uns	12KH17G9AN4	gost
S21900 This grade's own name	uns	12X17Г9AH4	gost
202 This grade's own name	aisi-sae	X17Г9AH4	gost
20202	aisi-sae	ЭИ878	gost
XM-10 This grade's own name	aisi-sae		
A1012	astm	Europe	1
A213	astm	X8CrMnNi18-8 This grade's own name	din-en
A240	astm		
A249	astm	United Kingdom	1
A276	astm	284S16	bs
A314	astm		
A473	astm	Japan	1
A480	astm	SUS 202	jis
A666	astm		
		China	1
		1Cr18Mn8Ni5N	gb

Czechia	1	Poland	1
17 460	csn	1H17N4G9	pn

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 X8CrMnNi18-8

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	1.3965	Aug 20, 2026