SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.3965 · CLASS 1.3

1.3965

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

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	24 in 8 regions	9 on file

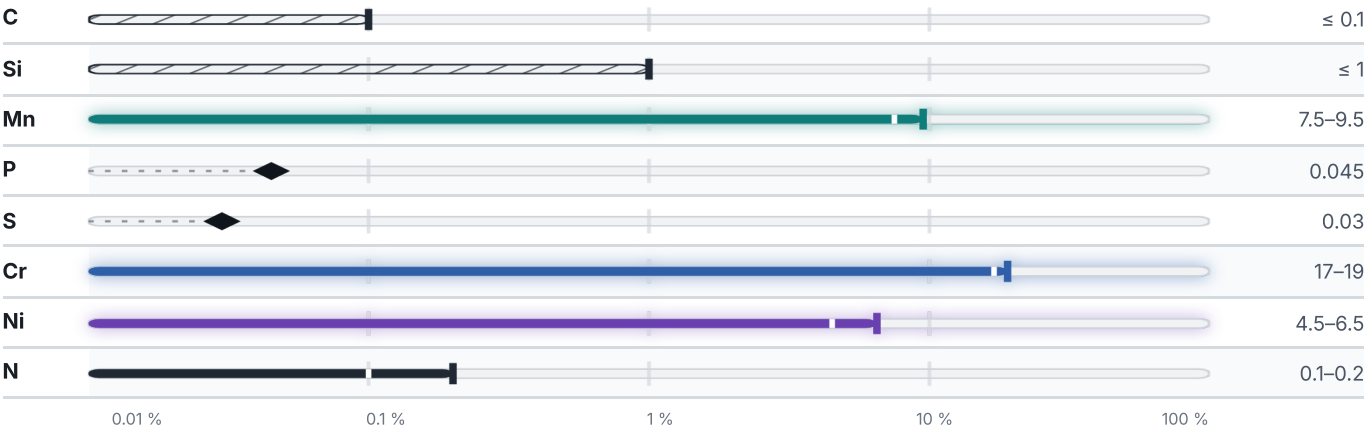
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 66.7 % · Cr — 18 % · Mn — 8.5 % · Ni — 5.5 % · Traces & impurities · 1.3 %

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/mm²	RE N/mm²	A5 %	Z %
Bar, GOST 5949-75	690	345	45	55

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %
Sheet trick, GOST 7350-77	690	345	40

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 5582-75	690	40

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin cold-worked , GOST 5582-75	980	15

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 4986-79	640	20–40

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

24 designations · 5 documented as identical

United States 14

S20200 This grade's own name	uns
S21900 This grade's own name	uns
202 This grade's own name	aisi-sae
20202	aisi-sae
XM-10 This grade's own name	aisi-sae
A1012	astm
A213	astm
A240	astm
A249	astm
A276	astm
A314	astm
A473	astm
A480	astm
A666	astm

Russia / CIS 4

12KH17G9AN4	gost
12Х17Г9АН4	gost
Х17Г9АН4	gost
ЭИ878	gost

Europe 1

X8CrMnNi18-8 This grade's own name	din-en

United Kingdom 1

284S16	bs

Japan 1

SUS 202	jis

China 1

1Cr18Mn8Ni5N	gb

Czechia	1
17 460	csn

Poland	1
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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.3965	Aug 20, 2026