

MATERIAL NUMBER 1.4372 · CLASS 1.4

X12CrMnNiN17-7-5

Material no. 1.4372

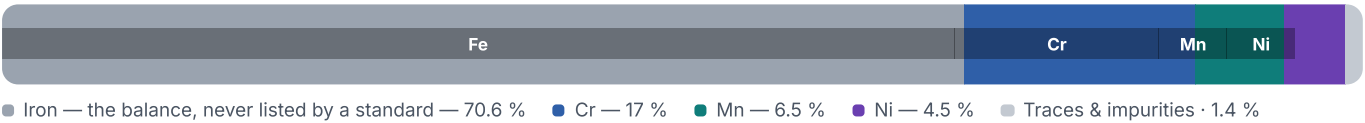
Chemical composition, mechanical and physical property values, and 27 standard designations from 9 regions.

DENSITY 7.85 g/cm³	ELASTIC MODULUS 197 GPa	OTHER DESIGNATIONS 27 in 9 regions	PROPERTY VALUES 14 on file
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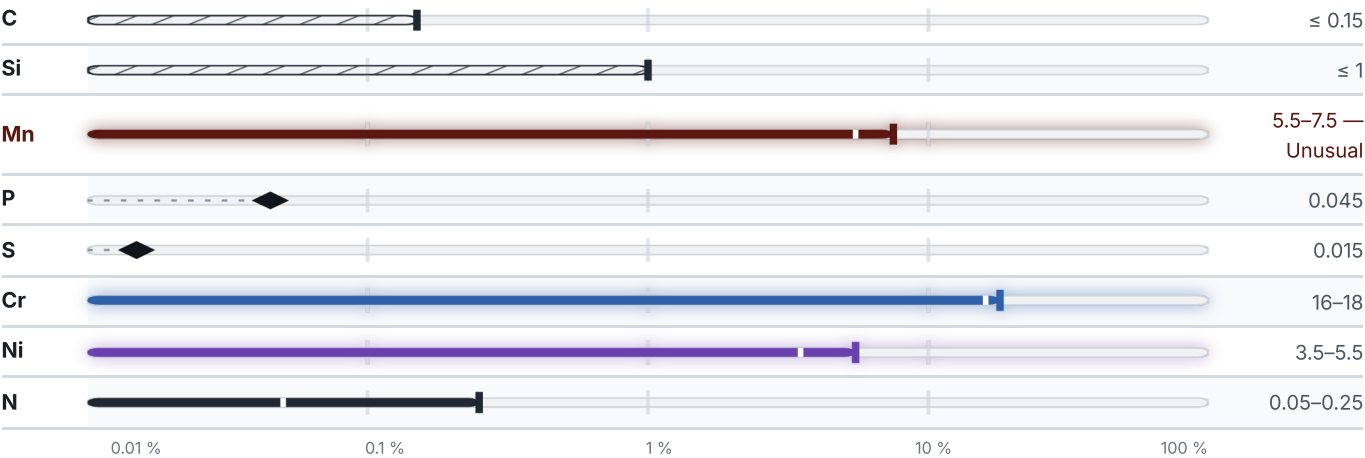
Chemical composition

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

5 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %
Bars/Rods	520	275	40	45
SOFT ANNEALED				HB
Soft annealed				260

Physical properties

6 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Elastic modulus	197	GPa
Thermal expansion coefficient	15.7	10 ⁻⁶ /K
Thermal conductivity	15	W/(m·K)
Specific heat capacity	500	J/(kg·K)
Electrical resistivity	700	nΩ·m

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Solution annealing	Temperature not stated	—

Designations across standards

27 designations · 3 documented as identical

United States		14	China		3
S20100	This grade's own name	uns	12Cr17Mn6Ni5N		gb
S20200		uns	12Cr18Mn9Ni5N		gb
201	This grade's own name	aisi-sae	1Cr17Mn6Ni5N		gb
202		aisi-sae			
20201		aisi-sae			
S20100		aisi-sae			
A1012		astm			
A213		astm			
A240		astm			
A249		astm			
A276		astm			
A473		astm			
A480		astm			
A666		astm			

France	1	Poland	1
Z12CMN17-07Az	afnor	1H17N4G9	pn
International	1	South Korea	1
X12CrMnNi18-9-5	iso	STS201	ks

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 X12CrMnNi17-7-5
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	1.4372	Aug 20, 2026