SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4573 · CLASS 1.4

X17H13M3T

Material no. 1.4573

also listed as GX3CrNiMoCuN24-6-5

Chemical composition, mechanical and physical property values, and 31 standard designations from 12 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.95 g/cm³	**31** in 12 regions	**12** on file

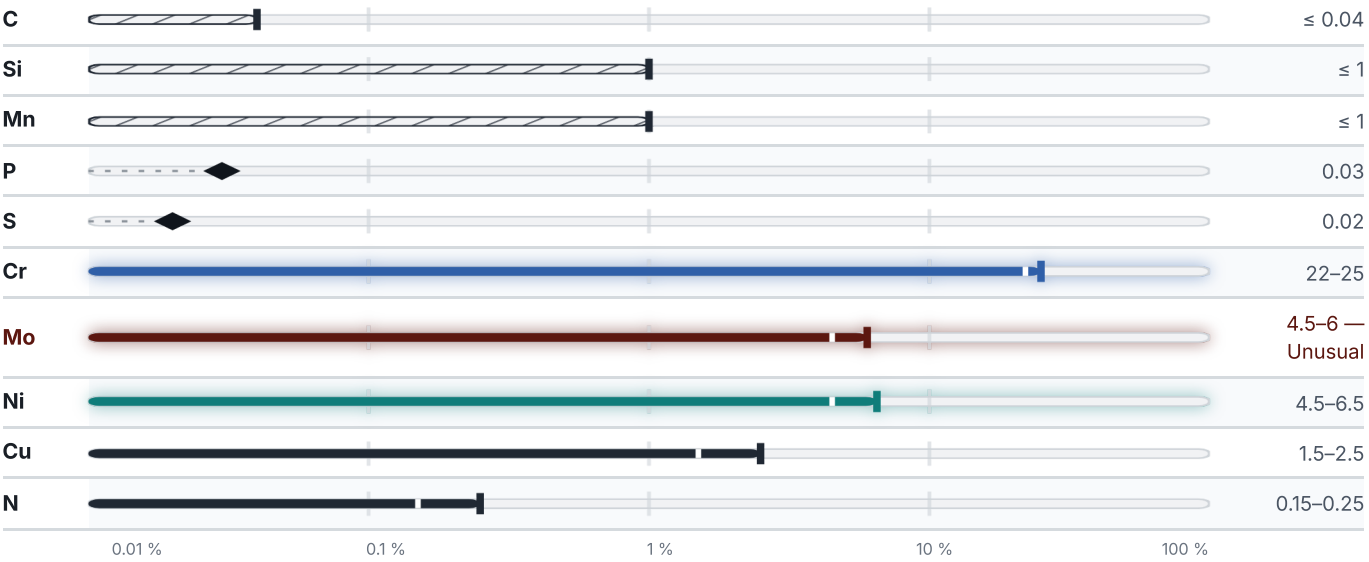
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 61.5 % · Cr — 23.5 % · Ni — 5.5 % · Mo — 5.3 % · Traces & impurities · 4.3 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

18 values across 5 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	HB
Wire, GOST 18143-72	540–830	–	20–25	–	–
Forging, GOST 25054-81	510	196	30–38	40–50	–
10KH17N13M3T (10X17H13M3T) , Forging GOST 25054-81	–	–	–	–	200

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %
Bar, GOST 5949-75	530	196	40	55

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %
Sheet trick, GOST 7350-77	530	235	37

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 5582-75	530	38

CONDITION · DIMENSION	RM N/mm²	A5 %
Sheet thin, GOST 4986-79	530	20–40

Physical properties

2 values

CONDITION · DIMENSION	RHO g/cm³
20	8

PROPERTY	VALUE	UNIT
Density	7.95	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

31 designations · 1 documented as identical

Russia / CIS 10

08KH17N13M2T	gost
08X17H13M2T	gost
0X17H13M2T	gost
10Ch17N13M2T	gost
10Ch17N13M3T	gost
10KH17N13M3T	gost
10X17H13M2T	gost
10X17H13M3T	gost
X17H13M3T	gost
ЭИ432	gost

United States 3

S31635	uns
316Ti	aisi-sae
S31635	aisi-sae

United Kingdom 3

2 1	bs
320S33	bs
4 Ti	bs

Japan 3

SUS 316Ti	jis
SUS 316TiTB	jis
SUS 316TiTP	jis

China 3

0Cr18Ni12Mo3Ti	gb
1Cr18Ni12Mo2Ti	gb
1Cr18Ni12Mo3Ti	gb

Spain 2

F.3535	une
X6CrNiMoTi17-12-2	une

Czechia 2

17353	csn
17356	csn

Europe 1

GX3CrNiMoCuN24-6-5 This grade's own name	din-en

France 1

Z6 CNDT 17.12	afnor

Italy 1

X6CrNiMoTi17-13	uni

Sweden 1

2350	ss

Poland 1

H17N13M2T	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 X17H13M3T

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	1.4573	Aug 20, 2026