SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.4747 · CLASS 1.4

S65006

Material no. 1.4747

also listed as X80CrNiSi20

Chemical composition, mechanical and physical property values, and 13 standard designations from 7 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	13 in 7 regions	8 on file

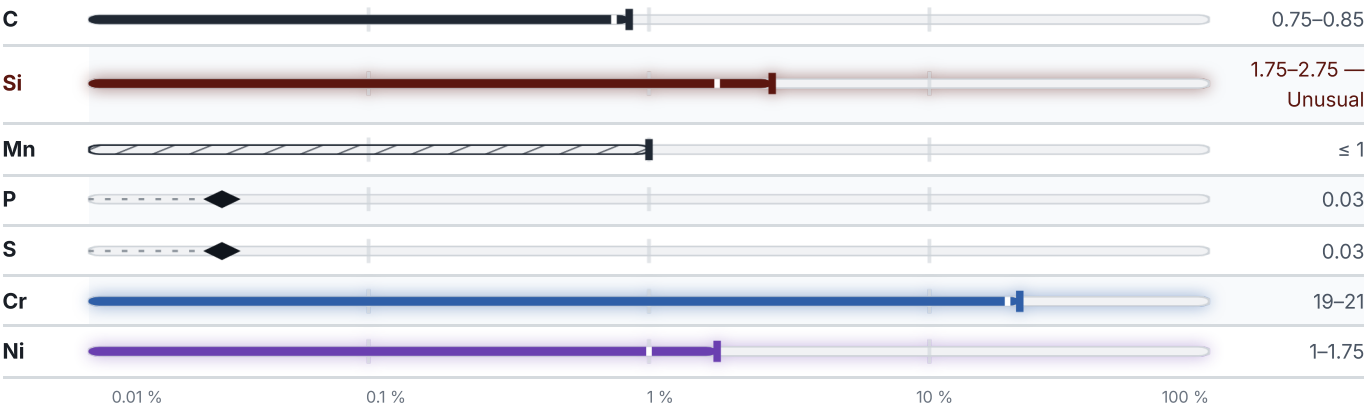
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 74.5 % · Cr — 20 % · Si — 2.3 % · Ni — 1.4 % · Traces & impurities · 1.9 %

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

6 values across 1 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %	Z %	AK J/cm²	HB
Bars/Rods Quenching and tempering	880	685	10	15	10	–
Annealed	–	–	–	–	–	321

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

13 designations · 3 documented as identical

Spain 4

80CrSiNi20-02	une
F.320B	une
F.3222	une
F.3222-X	une

Europe 2

1.4747	din-en
X80CrNiSi20 This grade's own name	din-en

United States 2

S65006 This grade's own name	uns
HNV 6 This grade's own name	aisi-sae

United Kingdom 2

443S65	bs
EN 59	bs

France 1

Z80CSN20.02	afnor

Japan 1

SUH4	jis

Italy 1

X80CrSiNi20	uni

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 S65006

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	1.4747	Aug 20, 2026