SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.2833 · CLASS 1.2

1.2833

Chemical composition, mechanical and physical property values, and 10 standard designations from 7 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	10 in 7 regions	7 on file

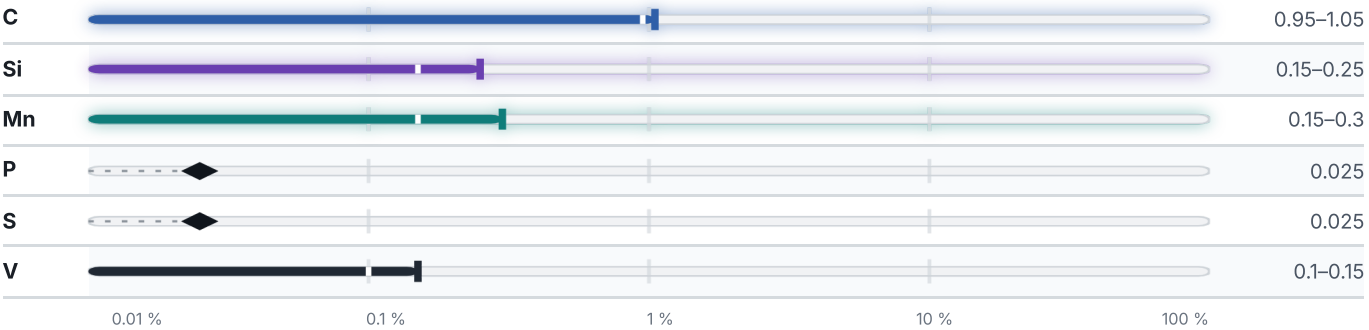
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 98.4 % · C — 1 % · Mn — 0.2 % · Si — 0.2 % · Traces & impurities · 0.2 %

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: Ni, Cr, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

10 designations · 4 documented as identical

United States 3

T72302 This grade's own name	uns
W2 C 1,00% This grade's own name	aisi-sae
W210 This grade's own name	aisi-sae

Europe 2

1.2833	din-en
100V1 This grade's own name	din-en

United Kingdom 1

BW2	bs

France 1

Y1105V	afnor

Japan 1

SKS43	jis

Czechia 1

19 356	csn

Poland 1

NV	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 1.2833

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	1.2833	Aug 20, 2026