SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.1563 · CLASS 1.1

Č.1943

Material no. 1.1563

also listed as C125U

Chemical composition, mechanical and physical property values, and 32 standard designations from 13 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	32 in 13 regions	9 on file

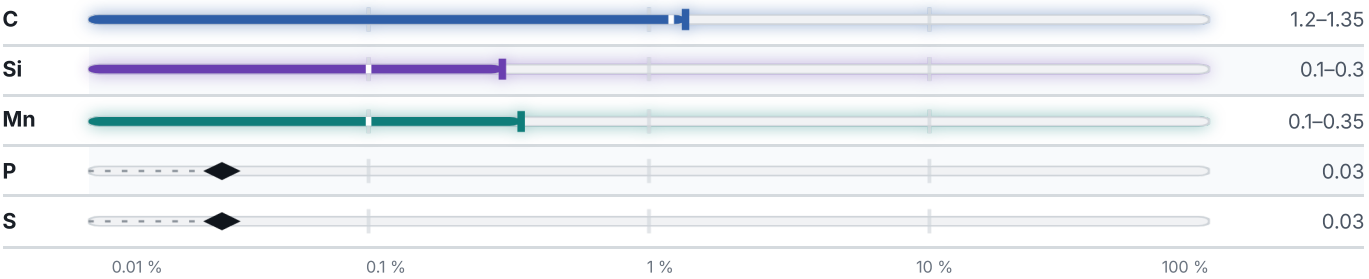
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 98.2 % · C — 1.3 % · Mn — 0.2 % · Si — 0.2 % · Traces & impurities · 0.1 %

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.

Mechanical properties

2 values across 2 conditions

CONDITION · DIMENSION	RM N/mm²
0.08 - 3	900

CONDITION · DIMENSION	HB
(annealing)	217

Physical properties

4 values

CONDITION · DIMENSION	RHO g/cm³
20	7.8

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³
Transformation point Ac1	730	°C
Transformation point Ac3	830	°C
Transformation point Ar1	700	°C

Designations across standards

32 designations · 4 documented as identical

Russia / CIS 8

13GS	gost
13KhFA	gost
13KhFYu	gost
13ГС-У	gost
PKG13	gost
U13	gost
ПКГ13-7.4	gost
У13	gost

United States 5

T72301	uns
T72301	aisi-sae
W1-13	aisi-sae
W112 This grade's own name	aisi-sae
W1C 1,20% This grade's own name	aisi-sae

France 3

C120E3U	afnor
C140E3U	afnor
Y240	afnor

Europe 2

C125U This grade's own name	din-en
C125W This grade's own name	din-en

Spain 2

C120	une
F.5123	une

Japan 2

SK1	jis
SK2	jis

Italy 2

C120KU	uni
C140KU	uni

Poland 2

N12	pn
N13	pn

Hungary 2

S131	msz
S132	msz

Czechia 1

19 255	csn

Serbia 1

Č.1943	srps

Bulgaria 1

U13	bds

Austria	1
K995	onorm

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	1.1563	Aug 20, 2026