

Cp22

also listed as C20E2C

Chemical composition, mechanical and physical property values, and 10 standard designations from 6 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
10 in 6 regions	5 on file

Chemical composition

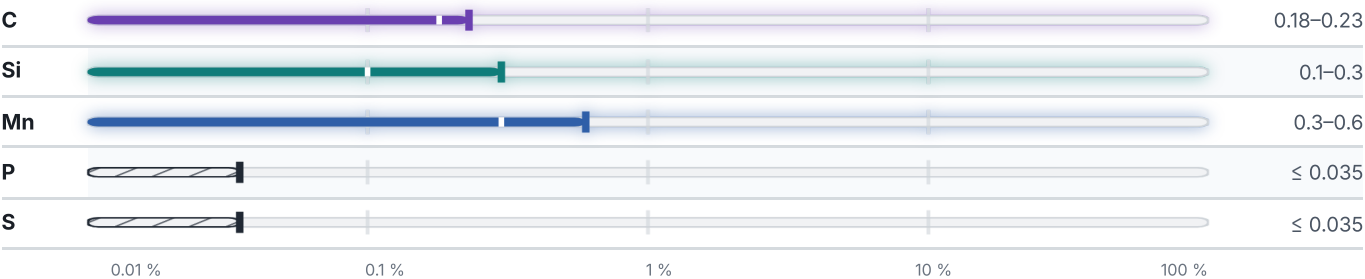
Mass fraction in %

What this alloy is



Iron — the balance, never listed by a standard — 99.1 % Mn — 0.4 % C — 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

4 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
25 – 25	520–820	≥ 320	≥ 11

CONDITION · DIMENSION	RM N/mm ²
/	≤ 490

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

10 designations · 1 documented as identical

International	3	Japan	2
C20E2C	iso	SWRCH20K	jis
C20GC	iso	SWRCH22K	jis
CC21A	iso		
Europe	2	United States	1
C20E2C	din-en	1020	astm
Cp22	din-en	China	1
		ML20	This grade's own namegb
		South Korea	1
		SWCH20K	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 Cp22

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	—	Aug 15, 2026