

TC90

also listed as BW1A

Chemical composition, mechanical and physical property values, and 5 standard designations from 5 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
5 in 5 regions	7 on file

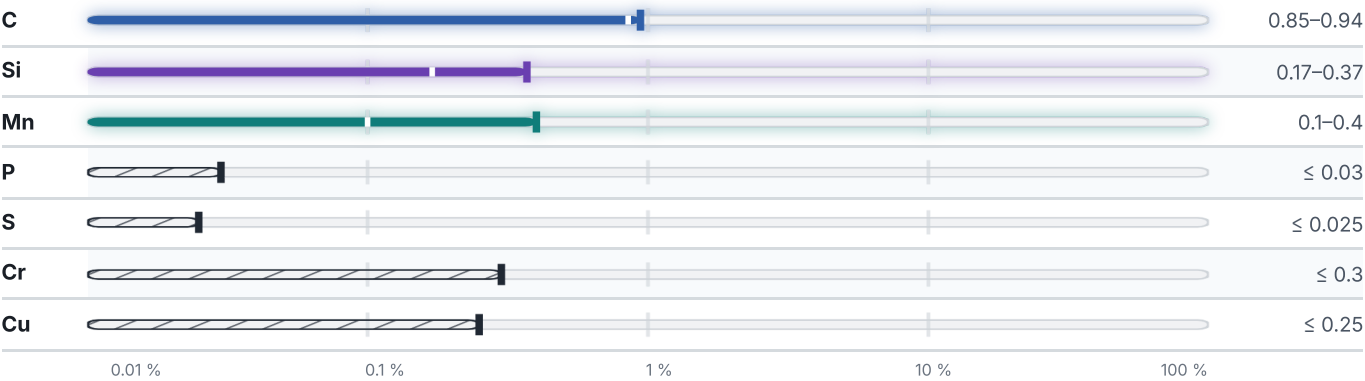
Chemical composition

Mass fraction in %



■ Iron — the balance, never listed by a standard — 98 % ■ C — 0.9 % ■ Cr — 0.3 % ■ Si — 0.3 % ■ Traces & impurities · 0.6 %

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, Mo.

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
Quenching	760–780 °C	Water

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

5 designations · 1 documented as identical

United Kingdom	1	China	1
BW1A	bs	T9 This grade's own name	gb
International	1	Russia / CIS	1
TC90	iso	Y9	gost
Japan	1		
SK5	jis		

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 TC90

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