

MATERIAL NUMBER 1.1535 · CLASS 1.1

W1C 0,90%

Material no. 1.1535

also listed as C90U

Chemical composition, mechanical and physical property values, and 26 standard designations from 14 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

26 in 14 regions

PROPERTY VALUES

12 on file

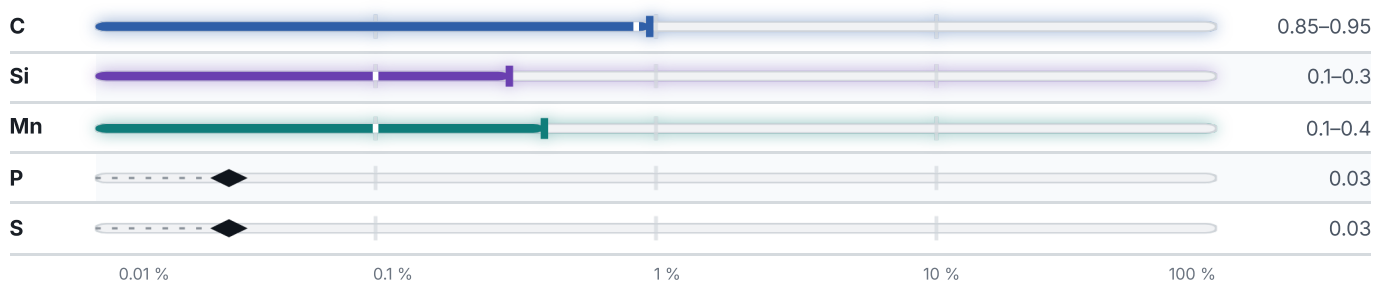
Chemical composition

Mass fraction in %

What this alloy is



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 3 conditions

SOFT ANNEALED

HB

Soft annealed

207

AS-DELIVERED STATE	RM N/mm ²	A5 %
to 4	750	10
CONDITION · DIMENSION	HB	
(annealing) , GOST 1435-99	197	

Physical properties

7 values

CONDITION · DIMENSION	RHO g/cm ³	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	RHO_EL nΩ·m
20	7.81	–	40	420
100	–	11.5	44	–
200	–	11.9	–	–
300	–	12.5	41	–
400	–	13	–	–
500	–	13.4	–	–
600	–	13.9	38	–
700	–	14.3	–	–
800	–	13.9	–	–
900	–	15.4	34	–
1000	–	13.3	–	–

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	730	°C
Transformation point Ac3	800	°C
Transformation point Ar1	700	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

26 designations · 3 documented as identical

United States4		Russia / CIS2	
T72301	uns	U10	gost
W109	aisi-saeThis grade's own name	U9A	gost
W110	aisi-sae	South Korea2	
W1C 0,90%	aisi-saeThis grade's own name	STC3	ks
Japan3		STC4	ks
SK3	jis	France1	
SK4	jis	C105E2U	afnor
SK5	jis	China1	
Poland3		T10	gb
N10	pn	Italy1	
N9	pn	C100KU	uni
N9E	pn	Czechia1	
Europe2		19192	csn
C105W2	din-en	Romania1	
C90U	din-enThis grade's own name	OSC 8M	stas
United Kingdom2		Austria1	
BW1	bs	K990	onorm
BW1B	bs		
International2			
C90U	iso		
TC105	iso		

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 W1C 0,90%

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	1.1535	Aug 20, 2026