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List of superconductors

The table below shows some of the parameters of common superconductors. X:Y means material X doped with element Y, T_C is the highest reported transition temperature in kelvins and H_C is a critical magnetic field in tesla. "BCS" means whether or not the superconductivity is explained within the BCS theory.

Contents

List

Substance	Class	T_C (K)	H_C (T)	Type	BCS	References
Al	Element	1.20	0.01	I	yes	[1][2][3]
Bi	Element	5.3×10^{-4}	5.2×10^{-6}	I	no	[note 1] [4]
Cd	Element	0.52	0.0028	I	yes	[2][3]
Diamond:B	Element	11.4	4	II	yes	[5][6][7]
Ga	Element	1.083	0.0058	I	yes	[2][3][8]
Hf	Element	0.165		I	yes	[2]
α-Hg	Element	4.15	0.04	I	yes	[2][3]
β-Hg	Element	3.95	0.04	I	yes	[2][3]
In	Element	3.4	0.03	I	yes	[2][3]
Ir	Element	0.14	0.0016	I	yes	[2][8]
α-La	Element	4.9		I	yes	[2]
β-La	Element	6.3		I	yes	[2]
Li	Element	4×10^{-4}		I		[9]
Mo	Element	0.92	0.0096	I	yes	[2][8]
Nb	Element	9.26	0.82	II	yes	[2][3]
Os	Element	0.65	0.007	I	yes	[2]
Pa	Element	1.4		I	yes	[10]
Pb	Element	7.19	0.08	I	yes	[2][3]
Re	Element	2.4	0.03	I	yes	[2][3][11]
Rh	Element	3.25×10^{-4}	4.9×10^{-6}	I		[12]
Ru	Element	0.49	0.005	I	yes	[2][3]
Si:B	Element	0.4	0.4	II	yes	[13]
Sn	Element	3.72	0.03	I	yes	[2][3]
Ta	Element	4.48	0.09	I	yes	[2][3]
Tc	Element	7.46–11.2	0.04	II	yes	[2][3]
α-Th	Element	1.37	0.013	I	yes	[2][3]
Ti	Element	0.39	0.01	I	yes	[2][3]
Tl	Element	2.39	0.02	I	yes	[2][3]
α-U	Element	0.68		I	yes	[2][10]
β-U	Element	1.8		I	yes	[10]
V	Element	5.03	1	II	yes	[2][3]
α-W	Element	0.015	0.00012	I	yes	[8][10][14]
β-W	Element	1–4				[14]
Zn	Element	0.855	0.005	I	yes	[2][3]
Zr	Element	0.55	0.014	I	yes	[2][3]

Ba_8Si_{46}	Compound	8.07	0.008	II	yes	[15]
C_6Ca	Compound	11.5	0.95	II		[16]
$C_6Li_3Ca_2$	Compound	11.15		II		[16]
C_8K	Compound	0.14		II		[16]
C_8KHg	Compound	1.4		II		[16]
C_6K	Compound	1.5		II		[17]
C_3K	Compound	3.0		II		[17]
C_3Li	Compound	<0.35		II		[17]
C_2Li	Compound	1.9		II		[17]
C_3Na	Compound	2.3–3.8		II		[17]
C_2Na	Compound	5.0		II		[17]
C_8Rb	Compound	0.025		II		[16]
C_6Sr	Compound	1.65		II		[16]
C_6Yb	Compound	6.5		II		[16]
$C_{60}Cs_2Rb$	Compound	33		II	yes	[18]
$C_{60}K_3$	Compound	19.8	0.013	II	yes	[15][19]
$C_{60}Rb_X$	Compound	28		II	yes	[20]
FeB_4	Compound	2.9		II		[21]
InN	Compound	3		II	yes	[22]
In_2O_3	Compound	3.3	~3	II	yes	[23]
LaB_6	Compound	0.45			yes	[24]
MgB_2	Compound	39	74	II	yes	[25]
Nb_3Al	Compound	18		II	yes	[2]
$NbC_{1-x}N_x$	Compound	17.8	12	II	yes	[26][27]
Nb_3Ge	Compound	23.2	37	II	yes	[28]
NbO	Compound	1.38		II	yes	[29]
NbN	Compound	16		II	yes	[2]
Nb_3Sn	Compound	18.3	30	II	yes	[30]
NbTi	Compound	10	15	II	yes	[2]
SiC:B	Compound	1.4	0.008	I	yes	[31]
SiC:Al	Compound	1.5	0.04	II	yes	[31]
TiN	Compound	5.6	5	I	yes	[32][33][34]
V_3Si	Compound	17				[35]
YB_6	Compound	8.4		II	yes	[36][37][38]
ZrN	Compound	10			yes	[39]

ZrB_{12}	Compound	6.0		II	yes	[38]
YBCO	Cuprate	95	120–250	II	no	
GdBCO	Cuprate	91		II	no	[40]
BSCCO	Cuprate	104				
HBCCO	Cuprate	135				
SmFeAs(O,F)	Iron-based	55				
CeFeAs(O,F)	Iron-based	41				
LaFeAs(O,F))	Iron-based	26				
LaFePO	Iron-based	4				
FeSe	Iron-based	65				
(Ba,K)Fe2As2	Iron-based	38				
NaFeAs	Iron-based	20				

Other types

- Fulleride superconductor Cs_3C_{60} at 38K
- Polyhydrides hydrogen rich compounds stabilised under hundreds of gigapascals pressure. For example trihydrogen sulfide H_3S At pressures above 90 GPa; 23 K at 100 GPa to 150 K at 200 GPa, or lanthanum decahydride, or carbonaceous sulfur hydride.

See also

- Conventional superconductor – Materials that display superconductivity as described by BCS theory or its extensions
- Covalent superconductor – Superconducting materials where the atoms are linked by covalent bonds
- High-temperature superconductivity – Superconductive behavior at temperatures much higher than absolute zero
- Room-temperature superconductor – Material which exhibits superconductivity above 0 °C
- Superconductivity – Electrical conductivity with exactly zero resistance
- Superconductor classification – Different types of superconductors
- Technological applications of superconductivity
- Timeline of low-temperature technology – aspect of history
- Type-I superconductor – Type of superconductor with a single critical magnetic field
- Type-II superconductor – Superconductor characterized by the formation of magnetic vortices in an applied magnetic field
- Unconventional superconductor – Superconductive materials not explained by existing established theories

Notes

1. According to,[4] superconductivity in Bi is not compatible with conventional BCS theory because the Fermi energy of Bi is comparable to the phonon energy (Debye frequency).

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