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Superconductive Materials and Some of Their Properties

B. W. Roberts

General Electric Research
and Development Center
Schenectady, New York, 12301

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FOREWORD

The NSRDS is a nation-wide program to provide to the U. S. technical community optimum access to the quantitative data of physical science, critically evaluated and compiled for convenience. It was established in 1963 by action of the President's Office of Science and Technology. Responsibility for administering this effort was given to the National Bureau of Standards. The Office of Standard Reference Data was set up within the NBS as the program management and coordinating vehicle. Recently Congress strengthened the program by passing PL90-396, The Standard Reference Data Act, which was signed into law July 11, 1968. The Act states: "It is the policy of the Congress to make critically evaluated data readily available to scientists, engineers, and the general public. . . The Secretary [of Commerce] is authorized and directed to provide or arrange for the collection, compilation, critical evaluation, publication, and dissemination of standard reference data."

The System now comprises a complex of data centers and other activities, carried on in Government agencies, academic institutions, and nongovernmental laboratories. The independent operational status of existing critical data projects is maintained and encouraged. Data centers that are components of the NSRDS produce compilations of critically evaluated data, critical reviews of the state of quantitative knowledge in specialized areas, and computations of useful functions derived from standard reference data. In addition, the centers and projects establish criteria for evaluation and compilation of data and make recommendations on needed modifications or extensions of experimental techniques.

Data publications of the NSRDS take a variety of physical forms, including books, pamphlets, loose-leaf sheets and computer tapes. While most of the compilations have been issued by the Government Printing Office, several have appeared in scientific journals. Under some circumstances, private publishing houses are regarded as appropriate primary dissemination mechanisms.

The technical scope of the NSRDS is indicated by the principal categories of data compilation projects now active or being planned: nuclear properties, atomic and molecular properties, solid state properties, thermodynamic and transport properties, chemical kinetics, colloid and surface properties, and mechanical properties.

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SUPERCONDUCTIVE MATERIALS AND SOME OF THEIR PROPERTIES

B. W. Roberts

This is a noncritical compilation of data on superconductive materials that has been extracted from a portion of the literature published up to early 1968. The properties concerned are composition, critical temperature, critical magnetic field, crystallographic data, and lowest temperature tested for superconductivity. The compilation also includes, bibliography, general reference review articles and a special tabulation of high magnetic field superconductors.

Key Words: Bibliography, compilation of data, composition, critical field, critical temperature, crystallographic data, low temperature, superconductivity.

INTRODUCTION

This monograph extends the data set on superconductive materials published in Vol. IV of Progress in Cryogenics, 1964,* pages 160-231 (subsequently denoted as PC IV) and includes the information given in the addendum, National Bureau of Standards Technical Note 408 of September 1966. The new material includes a portion of that data that is readily available to the author to early 1968. However, the world activity in the study of superconductive materials has continued at a high rate such that more than 1000 references are in hand and yet to be perused for available data as this Technical Note is assembled. The format of PC IV has been maintained except for minor additions such as thermodynamic data references, namely the electronic specific heats and Debye temperatures.

More than 65 years of research on the phenomena of superconductivity has led to a current world activity aimed at further understanding and exploitation. This effort has produced a technology that is being employed by many industrial concerns. Some of the latest developments include superconductive coils capable of producing magnetic fields approaching 25 Tesla. Superconductive magnets with precise and homogeneous fields and with selective spacial configurations are readily produced including some field gradient patterns that are impossible with normal state conductors. A linear accelerator is under construction with superconductive cavity walls. Large superconductive magnets are under construction for hydrogen bubble chambers with coil diameters on the order of 10 feet and more. Plasma researchers have constructed floating superconductive coils. Also a direct current transformer has recently been discovered utilizing a special arrangement of superconductive thin films for tunneling. However the latter device, long sought in the industrial world, is very small in power capacity and remains a scientific demonstration.

Doubtlessly other applications will be stimulated as the information on superconductivity research and the data produced are disseminated to the scientific and industrial community.

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*This data set has also been published in a Soviet book "New Materials and Methods of Investigating Metals and Alloys", edited by Professor I. I. Kornilov of the Baikov Institute of Metallurgy, 1966, Moscow, pp. 1-98.

GENERAL PROPERTIES OF SUPERCONDUCTORS

The historically first observed and most distinctive property of a superconductive body is the near total loss of resistance at a critical temperature T_c characteristic of each material. Figure 1(a) illustrates schematically two types of possible transitions. The sharp vertical discontinuity is indicative of that found for a single crystal of a very pure element or one of a few well annealed alloy compositions. The broad transition, illustrated by broken lines, suggests the transition shape seen for materials that are inhomogeneous and contain unusual strain distributions. Careful testing of the resistivity limits for superconductors shows that it is less than 4×10^{-23} ohm-cm,* while the lowest resistivity observed in metals is of the order of 10^{-13} ohm-cm. If one compares the resistivity of a superconductive body to that of copper at room temperature the superconductive body is at least 10^{17} times less resistive.

The temperature interval ΔT_c, over which the transition between the normal and superconductive states takes place, may be of the order of as little as 2×10^{-5} K or several K in width, depending upon the material state. The narrow transition width was attained in 99.9999 pure gallium single crystals.

A Type I superconductive body below T_c, as exemplified by a pure metal, exhibits perfect diamagnetism and excludes a magnetic field up to some critical field H_c, whereupon it reverts to the normal state as shown in the H-T diagram of Figure 1(b).

The difference in entropy near absolute zero between the superconductive and normal states relates directly to the electronic specific heat, γ;

$$(S_s - S_n)_{T \to 0} = -\gamma T$$

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* To convert "cm" to "m", multiply by 10^3.

The NBS Office of Standard Reference Data, as administrator of the National Standard Reference Data System, has officially adopted the use of SI units for all NSRDS publications, in accordance with NBS practice. This publication does not use SI units because contractual commitments with the author predate establishment of a firm policy on their use by NBS. Other appropriate conversion factors will be found on pages VII-2 and VIII-5. We urge that specialists and other users of data in this field accustom themselves to SI units as rapidly as possible.

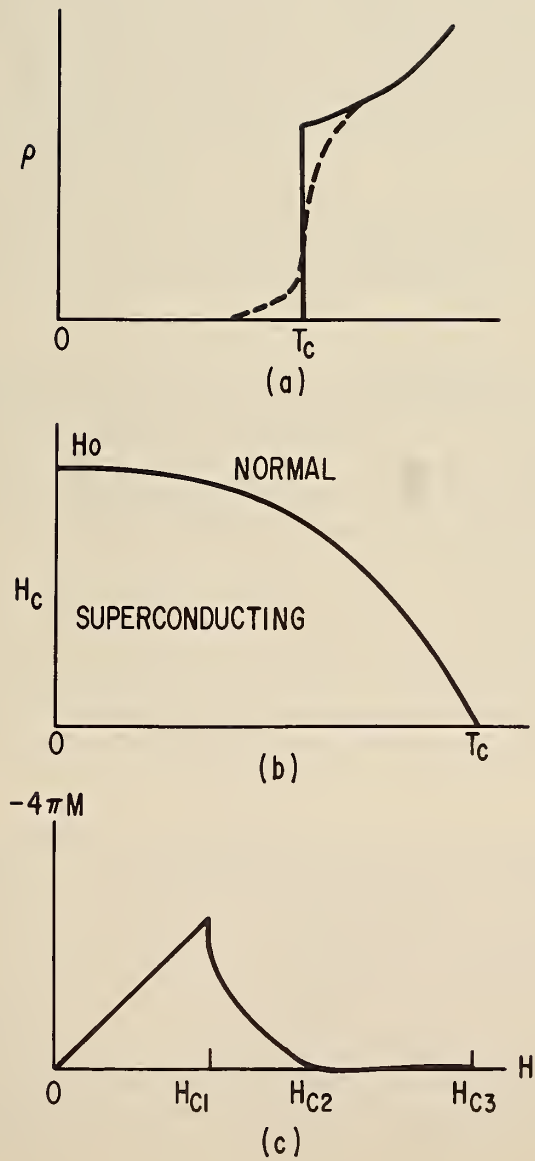

Figure 1. Physical properties of superconductors. (a) Resistivity versus temperature for a pure and perfect lattice (solid line). Impure and/or imperfect lattice (dashed line). (b) Magnetic field-temperature dependence for Type I or "soft" superconductors. (c) Schematic magnetization curve for "hard" or Type II superconductors.

HIGH FIELD SUPERCONDUCTIVITY

The discovery of the large current-carrying capability of Nb_3Sn and other similar alloys has led to an extensive study of the physical properties of these alloys. In brief, a high field superconductor, or Type II superconductor, passes from the perfect diamagnetic state at low magnetic fields to a mixed state and finally to a sheathed state before attaining the normal resistive state of the metal. The magnetization of a typical high field superconductor is shown in Figure 1(c). The magnetic field values separating the four stages are given as H_{c1}, H_{c2}, and H_{c3}. The superconductive state below H_{c1} is perfectly diamagnetic and identical to the state of most pure metals of the "soft" or Type I type. Between H_{c1} and H_{c2} a "mixed superconductive state" is found in which fluxons (a minimal unit of magnetic flux) create lines of normal superconductor in a superconductive matrix. The volume of the normal state is proportional to $-4\pi M$ in the "mixed state" region. Thus at H_{c2} the fluxon density has become so great as to drive the interior volume of the superconductive body completely normal. Between H_{c2} and H_{c3} the superconductor has a sheath of current-carrying superconductive material at the body surface, and above H_{c3} the normal state exists. With several types of careful measurement, it is possible to determine H_{c1}, H_{c2}, and H_{c3}. Table III contains some of the available data on high field superconductive materials.

High field superconductive phenomena are also related to specimen dimension and configuration. For instance, the Type I superconductor, Hg, has entirely different magnetization behavior in high magnetic fields when contained in the very fine set of filamentary tunnels in an unprocessed Vycor glass. The great majority of superconductive materials are Type II. The elements in very pure form and a very few precisely stoichiometric and well annealed compounds are Type I with the possible exceptions of vanadium and niobium.

CRITERIA FOR THE EXISTENCE OF THE SUPERCONDUCTIVE STATE

Experimental and theoretical attempts to evolve concretely the criteria for superconductivity in elements, alloys and materials still persist. A useful criterion has been found in Matthias' rules. These were developed empirically and then qualitatively shown to be derivable from the electronic properties of the atoms as presented in the periodic table. The primary empiricism of Matthias' rules is the prediction that alloys with average numbers of valence electrons per atom on the low sides of valence 5 and valence 7 will with some probability have high T_c. The average number of valence electrons is taken directly from the periodic table and an example of the validity of the empiricism is shown in Figure 2. Here the critical temperature of the known superconductive compounds having the A15 (β-W) or CrO_3 crystal structure are shown with the critical temperatures plotted versus the mean number of valence electrons per atom. Other parameter considerations such as the atomic volume and the mass of the constituent atoms have been useful but only in comparison within very similar systems.

A new and exciting discovery of a superconductive ternary alloy has been made with a T_c of 20.05 K. This is the first alloy to exceed the Nb_3Sn-base materials with critical temperatures up to about 18.5 K. The alloy follows Matthias' rules by having e/A of 4.55 corresponding to $Nb_3Al_{0.8}Ge_{0.2}$ (see Ref. 704). Subsequent study of the ternary has raised the critical temperature to 20.7 K* with initiation of the transition near 21 K. This is the first known superconductor with a T_c above the boiling point of liquid hydrogen at STP. The e/A ratio is 4.62 (close to the maximum in Fig. 2) and heat treatment temperature as well as the attained state of order appears to be important.

More semiconductive compounds have been found to be superconductive when studied after or during the application of high pressure and strontium titanate has been found superconductive at atmospheric pressure. The very high pressure phases of silicon and germanium have been shown to become superconductive in new dense phases. The additional discoveries of superconductive modifications of antimony, bismuth, cerium and gallium and the discovery of the very low critical temperature of tungsten leads to the repeated prediction that all metals are superconductive even if critical temperatures are currently too low to be measured. Some valid correlations now suggest that the noble metals (see Table I) such as gold and platinum will be superconductive if taken to temperatures of a few times 10^{-4} or 10^{-5} K.

The crystal structure of known superconductors has been a useful guide in discovering others. The classic example is the large number of superconductive A15 compounds. Other crystal structures such as the Laves phases and the χ-phase of α-Mn structure show a pronounced tendency to be superconductive. It is thought that the crystal structure has a secondary influence on the critical temperature, however, and that the important consideration is the electronic structure which leads to a high density of electron states at the fermi level. Since very few band structures are known for alloys with the structural complexity of the cubic A15 type, little applicable general theory has been achieved to date. Correlations of the electronic specific heat and the Debye θ's have tended to confirm the BCS (Bardeen-Cooper-Schrieffer) prediction within selected groups of superconductive materials. However there is evidence that precise correlation with the BCS theory is not always possible.

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*S. Foner, B.T. Matthias et al. Private communication. To be published in Proceedings of LT11., St. Andrews, Scotland, August 1968.

A continuing factor in the data presented are the newly discovered very low critical temperature superconductive materials and the number of non-superconductive materials studied down to temperatures well below 1 K. The disappointing lack of new superconductive materials with critical temperatures greater than 18.5 K has been overcome in the $Nb_3(Al, Ge)$ ternary system. However, the theoretical problem still exists. Is there a limit to superconductive critical temperatures somewhere in the vicinity of 21 K or are there undiscovered materials with critical temperatures above this? Abrikosov (see Review Article Reference) has suggested from rudimentary theory that the maximum T_c will be about 40 K. He also entertains the possibility that other mechanisms than the Cooper electron pairs may lead to the superconductive state and recent excitement has arisen over the divergence from normal of the isotope coefficient in uranium. The technical desirability of finding superconductors with higher T_c is clear since critical magnetic fields will be proportionately higher.

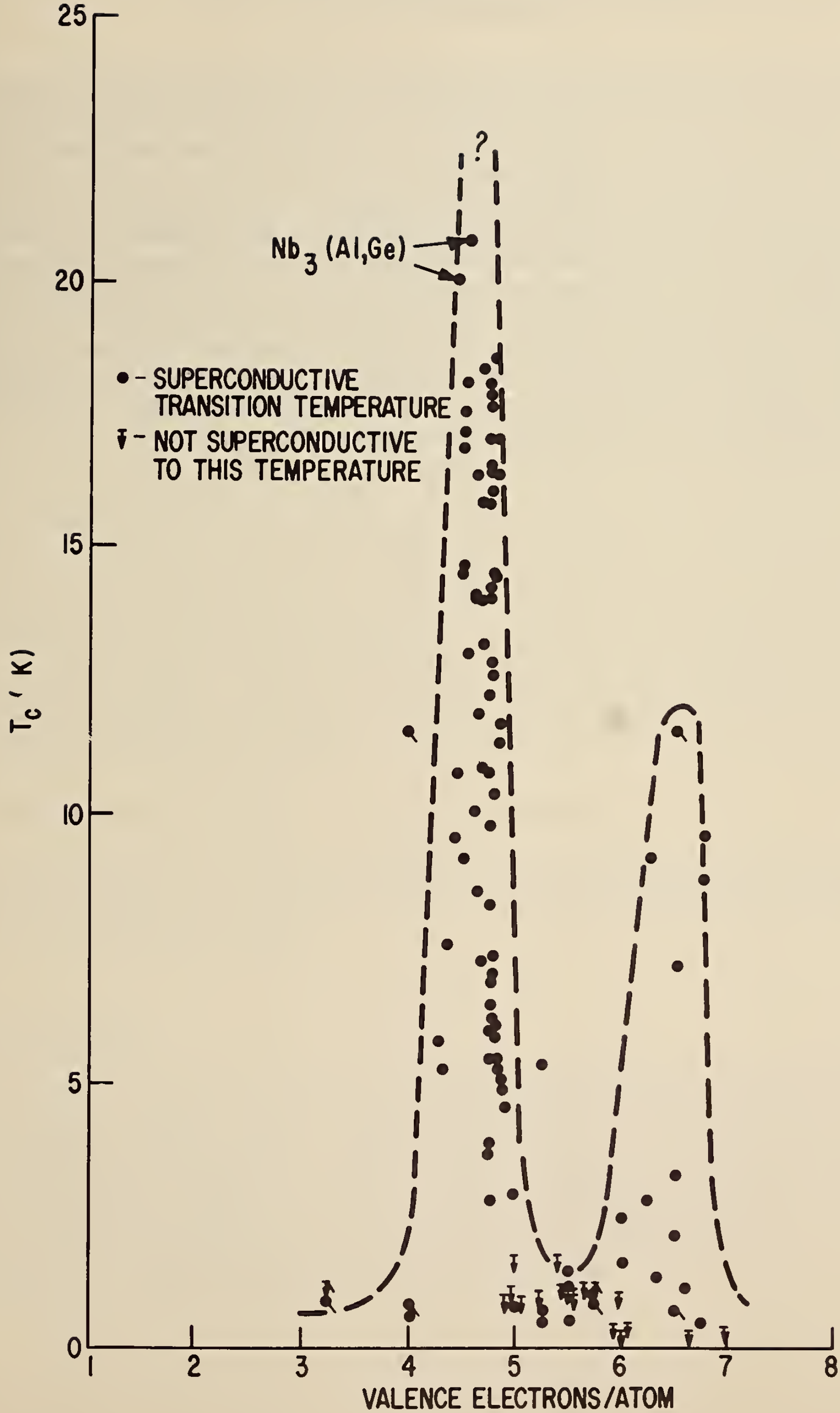

Figure 2. Critical temperature versus valence electron/atom ratio for "β-W" or A15 (Cr_3O) - type compounds.

METALLURGICAL ASPECTS

The sensitivity of superconductive properties to the material state is most pronounced and has been used in a reverse sense to study and specify the detailed state of alloys. The mechanical state, the homogeneity, and the presence of impurity atoms and other electron scattering centers are all capable of controlling the critical temperature and the current-carrying capabilities in high magnetic fields. Well annealed specimens tend to show sharper transitions than those that are strained or inhomogeneous. This sensitivity to mechanical state underlines a general problem in the tabulation of properties for superconductive materials. The occasional divergent values of the critical temperature and of the critical fields quoted for a Type II superconductor may lie in the variation in sample preparation. Critical temperatures of materials studied early in the history of superconductivity must be evaluated in light of the probable metallurgical state of the material as well as the availability of less pure starting elements. It has been noted that recent work has given extended consideration to the metallurgical aspects of sample preparation.

NOTES CONCERNING DATA IN THE MONOGRAPH

Table 1 lists the elements and some of their superconductive properties. The data have been selected generally from recent studies in which sample purity and perfection appear to have been seriously considered.

Table 2 contains superconductive materials reported during the period (including the information presented in Technical Note 408) plus all materials that have been reported to be tested specifically for a superconducting transition down to some temperature T_n without discovery of a transition. All compositions are denoted on an atomic basis, i. e. AB, AB_2 or AB_3 for compounds, unless noted. Solid solutions or odd compositions may be denoted as A_zB_{1-z}, or A_zB. A series of three or more alloys is indicated as A_xB_y or by actual indication of the atomic fraction range such as $A_{0-0.6}B_{1-0.4}$. The critical temperature of such a series of alloys is denoted by a range of values or possibly the maximum value. In many cases several references will be found for the same alloy. This usually denotes a separate measurement by each source, and in a few cases may even indicate a disagreement over the superconductive properties. In view of the previous discussions concerning the variability of the superconductive properties as a function of purity and other metallurgical aspects, it is recommended that the appropriate literature be checked to determine the most probable critical temperature or critical field of a given alloy. Another point of difficulty lies in the selection of the critical temperature from a transition observed in the effective permeability or the change in resistance, or possibly the incremental changes observed in frequency observed by certain techniques. Most authors choose the mid-point of such curves as the probable critical temperature of the idealized material, and others will choose the highest temperature at which a deviation from the normal state property is observed. Often the choice is not specified.

Table 3 lists high magnetic field superconductors.

Review articles concerned primarily with the experimental and material aspects of superconductivity are appended as well as a complete alphabetical cross-reference to authors by reference number.

Acknowledgments

Preprints and courtesy copies of reports on superconductive materials have been kindly sent by many researchers in the field and found most useful and are gratefully acknowledged. Special appreciation is extended to G. V. Samsonov of Kiev for an extended collection of data on nitrides, carbides and borides and to N. E. Alekseevskii of Moscow for information. The expert recording, collation, checking and typing assistance of Mrs. Joan Wolfe, Miss Mary Beth Marquis and Miss Claudia Gnoinski have contributed greatly to the monograph. The thorough coverage of the scientific literature is due to the library staff's fine efforts in seeking pertinent articles under the direction of Miss Vera O. Chase.

Table 1. Properties of Superconductive Elements (References given in Table 2, as well as Crystal Structure Data and Information on Non-superconductive Elements)

Element	T_c(K) Cal.	T_c(K) Mag.	H_o(oersteds) Cal.	H_o(oersteds) Mag.	θ_D (K) (See † below)	γ (mJ mole^{-1} deg. K^{-2}) (See ‡ below)
Al	1.183	1.196	104	99	420	1.36
Cd	0.54, 0.518	0.56	29.6	30	209	0.688
Ga	1.087, 1.078	1.091	59.4, 58.9	51	317, 324.7	0.601, 0.596
Ga (β)		6.2				
Ga (γ)		7.62		HF*		
Hg (α)	4.16	4.154	380	410.9	87, 71.9	1.81
Hg (β)		3.949		339	93	1.37
In	3.407	3.4035	282.7	293	109	1.66
Ir		0.14		19	420	3.2
La (α)	4.80	4.9			142	10.0
La (β)	5.91	6.06		1,600	132	6.7
Mo	0.915-0.918	0.92	95	98	460	1.83
Nb	9.17	9.26	1,944	1,980, HF*	277	7.79
Os		0.655		65	500	2.35
Pa		1.4				
Pb	7.23	7.193		803, HF*	96.3	3.0
Pt		<0.001				
Re	1.699	1.698	188	198	415	2.35
Rh		<0.001			500	4.7
Ru		0.49		66	550	3.0
Sb		2.6-2.7		HF*		
Sn	3.722	3.722	303	305.50	195	1.74
Ta	4.39	4.483	780	830, HF*	258	6.0
Tc		8.22, 7.92				
Th		1.368	131	162	168	4.65
Ti	0.42	0.39	56	100, HF*	425	3.32
Tl	2.38	2.39	176.5	171	78.5	1.47
U (α)		0.68, 0.23			206	12.2
U (pseudo-γ)		1.80 (extrapolated value)				
V	5.37	5.30	1,310	1,020, HF*	399	9.8
W		0.012		1.07	550	3.0
Zn	0.852	0.875	51.8	53	309	0.66
Zr		0.546		47	290	2.78
Zr (ω)		0.65				

Element	T_c (K) Cal.	T_c (K) Mag.	H_o (oersteds)[1] Cal.	H_o (oersteds)[1] Mag.	θ_D (K) (See † below)	γ (mJ $mole^{-1}$ deg. K^{-2}) (See ‡ below)
Thin films formed at various temperatures						
Al		1.3-3.7				
Be		~6, ~8.4		H_{c2}≫11,000		
Bi		~6.0				
Ga		8.4, 7.2				
In		3.95-4.25, 3.7				
La		5.00-6.74				
Mo		~5				
Re		~7				
Sn		4.6-4.7, 4.1				
Ti		1.3M				
W		1.7-4.1				
Under high pressure						
					Pressure	
Bi II		3.916			25,000 atm[2]	
		3.90			25,200 atm	
		3.86			26,800 atm	
Bi III		7.25		HF*	27,000-28,400 atm	
Ce		1.7			50 kbar	
Ge		4.85-5.4			~120 kbar	
Se II		6.75, 6.95			~130 kbar	
Si		7.1			120-130 kbar	
Te		~3.3		HF*	~56,000 atm	
Tl (FCC)		1.45			35 kbar	
Tl (HCP)		1.95			35 kbar	

† For another data set see Mendelssohn, K., Cryophysics, p. 178 (Interscience, New York, 1960).

‡ Parkinson, D.H., Rep. progr. Phys. 21, 226 (1958). Also see Reference 572.

HF* See Table 3 for additional data on H_{c1}, H_{c2} and H_{c3}. M equals maximum. FCC is face-centered cubic. HCP is hexagonal close-packed.

[1] To convert "oersteds" to ampere/meters, multiply by 7.957×10^3.

[2] To convert "atm" to "newton/meter^2", multiply by 1.013×10^5.

Table 2. Tabulation of Superconductive Materials (including Proven Non-superconductors) with Critical Temperatures and Fields, Crystal Structure Data where determined, and References.

<u>Symbols used</u>:

*	Eutectic alloy.
Δ	Uncertain composition.
R	Resistance measurements.
M	Denotes maximum T_c in series of specimens or compositions.
**	T_n is the lowest temperature at which a material has been checked for a superconductive transition.
HF	In H_o column indicates that some information is available in Table 3 on high field magnetic properties.
∇	On material or reference indicates a thin film study.
∞	All cell edges are intended to be quoted in Angström units.
T_c'	(----) Denotes incremental changes in T_c from T_c of pure metal.
o	Impure material.
C	Calorimetric determination.
VA	Valence electron/atom.
SS	Solid solution.
n	Number of carriers in superconductive semiconductive materials.
#	Electronic specific heat (γ) and/or Debye θ data given.

(Some of the above symbols may be found only in PROGRESS IN CRYOGENICS article - PC IV).

KEY TO CRYSTAL STRUCTURE TYPES FOUND IN TABLE 2

"Struckturbericht" Type*	Example	Class
A1	Cu	Cubic, f.c.
A2	W	Cubic, b.c.
A3	Mg	Hexagonal, close packed
A4	Diamond	Cubic, f.c.
A5	White Sn	Tetragonal, b.c.
A6	In	Tetragonal, b.c. (f.c. cell usually used)
A7	As	Rhombohedral
A8	Se	Trigonal
A10	Hg	Rhombohedral
A12	α-Mn	Cubic, b.c.
A13	β-Mn	Cubic
A15	β-W	Cubic
B1	NaCl	Cubic, f.c.
B2	CsCl	Cubic
B3	ZnS	Cubic
B4	ZnS	Hexagonal
$B8_1$	NiAs	Hexagonal
$B8_2$	Ni_2In	Hexagonal
B10	PbO	Tetragonal
B11	γ-CuTi	Tetragonal
B17	PtS	Tetragonal
B18	CuS	Hexagonal
B20	FeSi	Cubic
B27	FeB	Ortho-rhombic
B31	MnP	Ortho-rhombic
B32	NaTl	Cubic, f.c.
B34	PdS	Tetragonal

*See W.B. Pearson, Handbook of Lattice Spacing and Structures of Metals (Pergamon, New York, 1958), p. 79, also Vol. II (Pergamon, New York, 1967), p. 3.

"Struckturbericht" Type*	Example	Class
B_f	δ-CrB	Ortho-rhombic
B_g	MoB	Tetragonal, b.c.
B_h	WC	Hexagonal
B_i	γ'-MoC	Hexagonal
C1	CaF_2	Cubic, f.c.
$C1_b$	MgAgAs	Cubic, f.c.
C2	FeS_2	Cubic
C6	CdI_2	Trigonal
C11b	$MoSi_2$	Tetragonal, b.c.
C12	$CaSi_2$	Rhombohedral
C14	$MgZn_2$	Hexagonal
C15	Cu_2Mg	Cubic, f.c.
$C15_b$	$AuBe_5$	Cubic
C16	$CuAl_2$	Tetragonal, b.c.
C18	FeS_2	Ortho-rhombic
C22	Fe_2P	Trigonal
C23	$PbCl_2$	Ortho-rhombic
C32	AlB_2	Hexagonal
C36	$MgNi_2$	Hexagonal
C37	Co_2Si	Ortho-rhombic
C49	$ZrSi_2$	Ortho-rhombic
C54	$TiSi_2$	Ortho-rhombic
C_c	Si_2Th	Tetragonal, b.c.
$D0_3$	BiF_3	Cubic, f.c.
$D0_{11}$	Fe_3C	Ortho-rhombic
$D0_{18}$	Na_3As	Hexagonal
$D0_{19}$	Ni_3Sn	Hexagonal
$D0_{20}$	$NiAl_3$	Ortho-rhombic
$D0_{22}$	$TiAl_3$	Tetragonal
$D0_e$	Ni_3P	Tetragonal, b.c.

"Struckturbericht" Type*	Example	Class
$D1_3$	Al_4Ba	Tetragonal, b. c.
$D1_c$	$PtSn_4$	Ortho-rhombic
$D2_1$	CaB_6	Cubic
$D2_c$	MnU_6	Tetragonal, b. c.
$D2_d$	$CaZn_5$	Hexagonal
$D5_2$	La_2O_3	Trigonal
$D5_8$	Sb_2S_3	Ortho-rhombic
$D7_3$	Th_3P_4	Cubic, b. c.
$D7_b$	Ta_3B_4	Ortho-rhombic
$D8_1$	Fe_3Zn_{10}	Cubic, b. c.
$D8_2$	Cu_5Zn_8	Cubic, b. c.
$D8_3$	Cu_9Al_4	Cubic
$D8_8$	Mn_5Si_3	Hexagonal
$D8_b$	CrFe	Tetragonal
$D8_i$	Mo_2B_5	Rhombohedral
$D10_2$	Fe_3Th_7	Hexagonal
$E2_1$	$CaTiO_3$	Cubic
$E9_3$	Fe_3W_3C	Cubic, f. c.
$L1_0$	CuAu	Tetragonal
$L1_2$	Cu_3Au	Cubic
L'_{2b}	ThH_2	Tetragonal, b. c.
L'_3	Fe_2N	Hexagonal

Table 2. Tabulation of Superconductive Materials (including Proven Non-superconductors) with Critical Temperatures and Fields, Crystal Structure Data where determined, and References.

Material	T_c (K)	H_o(oersteds)[1]	T_n**	Crystal Structure ∞	Ref.
$Ag_{3.3}Al$			0.34	like A13, a=6.92	486
$Ag_xAl_yZn_{1-x-y}$	0.5-0.845				624
$Ag_7BF_4O_8$	0.15			Cubic, a=9.942	605
Ag_5Ba			0.34	$D2_d$, a=5.71, c=4.64	486
$AgBi_2$	3.0-2.78				606
$Ag_7F_{0.25}N_{0.75}O_{10.25}$	0.85-0.90				605
Ag_7FO_8	0.3			Cubic, a=9.833	605
Ag_2F	0.066	2.5			651#
$Ag_{0.3-0.02}Ga_{0.7-0.98}$			1.4		533,585
$Ag_{0.95-0.81}Ga_{0.05-0.19}$			1.4		533
$Ag_{0.80-0.30}Ga_{0.20-0.70}$	6.5-8				533
$Ag_xGa_yIn_{0.10}$	6.5-8				533,585
$Ag_xGa_ySn_{0.10}$	4.2				533,585
$Ag_xGa_yZn_{0.10}$	6.5-8				533,585
Ag_4Ge	0.85			Hex., h.c.p.	487
$Ag_{0.438}Hg_{0.562}$	0.64			$D8_{1,2,3}$ "gamma brass", complex b.c.c.	489,511
Ag_3In			1.4		533,585
$Ag_{0.1}In_{0.9}Te$ ($n=1.40 \times 10^{22}$)***	1.20-1.89			B1, a=6.12	470
$Ag_{0.2}In_{0.8}Te$ ($n=1.07 \times 10^{22}$)	0.77-1.00			B1, a=6.08	470
AgLa	0.92-0.96				697

*** n = number of normal carriers per cubic centimeter for semiconductor superconductors.

[1] To convert "oersteds" to ampere/meters, multiply by 7.957×10^3.

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
AgLa (9.5 kbar)	1.2			B2	697
AgLu			0.33	B2	658
Ag_7NO_{11}	1.04	57		Cubic, a=9.893	605
$Ag_{0-1.00}Pd_{1.00-0}$				A1	572#
$AgSi_2$			1.4		533,585
Ag_5Sn			0.34	A3, a=2.94, c=4.77	486
$Ag_{1-0.92}Sn_{0-0.08}$					630#
Ag_xSn_{1-x}▽	2.0-3.8				693▽
Ag_3Sn▽					693▽
Ag_5Sr			0.34	$D2_d$, a=5.68, c=4.62	486
$AgTe_3$	2.6			Cubic, primitive	487
AgY			0.33	B2	658
Ag_xZn_{1-x}	0.5-0.845				624
$Ag_{0-0.0566}Zr_{1-0.9434}$				A3	572#
$Al_{0.1}$ (with 3d metals)				A2, b.c.c.	572#
$Al_{0.2}$ (with 3d metals)				A2, b.c.c.	572#
Al▽	2.13-2.31				595
Al▽	1.5-3.7				596▽
Al▽	1.3-2.25				619▽
Al (1 to 21 katm)	1.170-0.687			A1	639
Al_2Au			0.34	C1, a=6.01	486
$AlAu_4$	0.4-0.7			Like A13, a=6.92	486
Al_4C_3			1.38		558

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$AlCCr_2$			1.1	Hex., "H-phase"	632
Al_2CCr_3			4.2	Hex., "H-phase," A=2.47, c=7.39	496,497,638
Al_2CMo_3	9.8-10.2	1700		A13 + trace 2nd phase	571
Al_2CMo_3	10.0			A13, a=6.867	496,497,632
$AlCNb_2$			4.2	Hex.	497
Al_2CNb_3			4.2	Hex., "H-phase," a=2.67, c=8.02	496,497,638
Al_2CTa_3			4.2	Hex., "H-phase," a=2.68, c=7.97	496,497,638
Al_2CTi_3			4.2	Hex., "H-phase," a=2.63, c=7.87	496,497,638
$AlCV_2$			1.1	Hex., "H-phase"	632
Al_2CV_3			4.2	Hex., "H-phase," a=2.52, c=7.52	496,497,638
Al_2Ce			0.34	C15	655
Al_2Ce			0.34		655
$Al_{0.107}Co_{0.088}Fe_{0.805}$			1.4	Cubic	514#
$Al_{0.107}Co_{0.176}Fe_{0.717}$			1.4	Cubic	514#
$Al_{0.107}Co_{0.259}Fe_{0.634}$			1.4	Cubic	514#
$Al_{0.118}Co_{0.446}Fe_{0.436}$			1.4	Cubic	514#
$Al_{0.118}Co_{0.523}Fe_{0.359}$			1.4	Cubic	514#
$Al_{0.119}Co_{0.352}Fe_{0.529}$			1.4	Cubic	514#
$Al_{0.119}Co_{0.610}Fe_{0.271}$			1.4	Cubic	514#
$Al_{0.049}Cr_{0.951}$			1.4	A2	514#
$Al_{0.10}Cr_{0.90}$			1.4	Cubic	514#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Al_{0.146}Cr_{0.854}$			1.4	Cubic	514#
$Al_{0.20}Cr_{0.80}$			1.4	Cubic	514#
$Al_{0.250}Cr_{0.750}$			1.4	Cubic	514#
$Al_{0.30}Cr_{0.70}$			1.4	Cubic	514#
$Al_{0-0.30}Cr_{1-0.70}$				A2	572#
$AlCr_{0-0.0016}$	T_c' (-0.33)				598
$Al_{1-x}Cr_x$	T_c' deducible				673
$Al_{0.089}Cr_{0.544}Fe_{0.367}$			1.4	Cubic	514#
$Al_{0.09}Cr_{0.046}Fe_{0.866}$			1.4	Cubic	514#
$Al_{0.09}Cr_{0.228}Fe_{0.682}$			1.4	Cubic	514#
$Al_{0.091}Cr_{0.817}Fe_{0.092}$			1.4	Cubic	514#
$Al_{0.095}Cr_{0.453}Fe_{0.452}$			1.4	Cubic	514#
$Al_{0.096}Cr_{0.679}Fe_{0.225}$			1.4	Cubic	514#
$Al_{0.097}Cr_{0.726}Fe_{0.177}$			1.4	Cubic	514#
$Al_{0.100}Cr_{0.632}Fe_{0.268}$			1.4	Cubic	514#
$Al_{0.104}Cr_{0.849}Fe_{0.047}$			1.4	Cubic	514#
$Al_{0.105}Cr_{0.753}Fe_{0.142}$			1.4	Cubic	514#
$Al_{0.10}Cr_{0.63}V_{0.27}$			1.4	Cubic	514#
$Al_{0.111}Cr_{0.801}V_{0.089}$			1.4	Cubic	514#
$Al_{0.114}Cr_{0.267}V_{0.618}$			1.4	Cubic	514#
$Al_{0.115}Cr_{0.708}V_{0.177}$			1.4	Cubic	514#
$Al_{0.115}Cr_{0.839}V_{0.045}$			1.4	Cubic	514#
$Al_{0.122}Cr_{0.458}V_{0.042}$			1.4	Cubic	514#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Al_{0.131}Cr_{0.088}V_{0.781}$	1.46			Cubic	514#
$Al_{0-0.50}Fe_{1-0.50}$				A2	572#
$Al_{0.01-0.02}Fe_{0.99-0.98}$					572#
$AlFe_{0-0.0002}$	T_c' (-0.04)				598
$Al_{1-x}Fe_x$	T_c' deducible				673
$Al_{0.8}Ge_{0.2}Nb_3$	20.05			A15	704
$AlLa_3$	5.57			DO_{19}	658
Al_2La	3.23			C15, a=8.13	486,658
AlLa			0.33		658
Al_2Lu			1.02	C15	658
$AlLu_3$			1.1		659
$AlMn_{0-0.0018}$	T_c' (-0.68)				598
$Al_{1-x}Mn_x$	T_c' deducible				673
AlN	1.55			B4, Hex., a=3.104, c=4.965	558
Al_2NNb_3	1.3			A13	632
$Al_{0.33}Nb_{0.66}$	8.5-13.5			$D8_b$	557
$Al_{0.10-0.30}Nb_{0.81-0.70}$ (As cast)	17.3M				479
$Al_{0.19-0.30}Nb_{0.81-0.70}$ (Annealed)	18.3M				479
Al_xNb_{1-x}	6-9			Cubic	497
Al_xNb_{1-x}	<4.2-13.5			$D8_b$, a=9.318, c=4.813 to a=9.295, c=4.819	497
Al_xNb_{1-x}	12-17.5			A15	513

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Al_xNb_{1-x}	12			A15, a=5.196	513
Al_xNb_{1-x}	17.5			A15, a=5.185	513
$AlNb_3$	12.5-17.5			A15	497
$Al_{0.27}Nb_{0.73}$	17.5			A15, a=5.185	497
$Al_{0.27}Nb_{0.73-0.48}V_{0-0.25}$	14.5-17.5			A15, a=5.136-5.185	497
$Al_{0.27}Nb_{0-0.50}V_{0.73-0.23}$			4.2	Cubic, a=3.055-3.18	497
$AlNb_xV_y$	<4.2-13.5				497
$Al_{0.10}Ni_{0.90}$				A1, f.c.c.	572#
$Al_{1-x}Ni_x$	T_c' deducible				673
AlPb▽ (Superimposed films)	1.2-7				512▽
AlPt			0.34	Cubic, a=4.85	486
Al_2Pt	0.48-0.55			C1, a=5.92	486
Al_5Re_{24}	3.35			A12	557
Al_2Sc			1.02	C15	658
$AlSc_3$			1.1		659
$Al_{1-x}Ti_x$	T_c' deducible				673
$Al_{0.10}Ti_{0.63}V_{0.27}$	3.62			Cubic	514#
$Al_{0.11}Ti_{0.149}V_{0.741}$	2.05			Cubic	514#
$Al_{0.120}Ti_{0.328}V_{0.552}$	2.70			Cubic	514#
$Al_{0.125}Ti_{0.520}V_{0.355}$	3.44			Cubic	514#
$Al_{0.127}Ti_{0.693}V_{0.180}$	3.52			Cubic	514#
$Al_{0.15}Ti_{0.595}V_{0.255}$	2.36			Cubic	514#
$Al_{0.25}Ti_{0.525}V_{0.255}$			1.4	Cubic	514#
$Al_{0.30}Ti_{0.49}V_{0.21}$			1.4	Cubic	514#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Al_{0.108}V_{0.892}$	1.82			Cubic	514#
$Al_{0.188}V_{0.812}$			1.4	Cubic	514#
$Al_{0.27}V_{0.73}$			4.2	Cubic, a=3.055	497
$Al_{0.308}V_{0.692}$			1.4	Cubic	514#
$Al_{0.402}V_{0.598}$			1.4	Cubic	514#
$Al_{0.01-0.40}V_{0.90-0.60}$				A2	572#
$Al_{1-x}V_x$	T'_c deducible				673
AlY_3			1.1		659
Al_2Y			0.34	C15, a=7.86	486,658
Al_xZn_{1-x}	T'_c (-0.03,0.0 +)				598
Al_xZn_{1-x}	0.5-0.845				624
$As_{0.33}InTe_{0.67}$($n=1.24x10^{22}$)	0.85-1.15			B1, a=5.98	470
$As_{0.5}InTe_{0.5}$ ($n=0.97 \times 10^{22}$)	0.44-0.62			B1, a=5.91	470
AsIr			0.35		491
$AsIr_2$			0.35		491
$AsPd_2$ (low temperature)	0.60			Hex., a=9.79,c=6.62	491
$AsPd_2$ (high temperature)	1.70			C22, a=6.65, c=3.58	491
$AsPd_2$ (quenched)	1.71			C22, a=6.65, c=3.57	530
$AsPd_2$ (annealed)	0.6			Hex., a=9.79,c=6.61	530
$AsPd_3$			0.35	DO_e, a=9.986,c=4.830	491
$AsPd_3$			0.3	DO_e, a=9.98, c=4.83	530
$AsPd_7$			1.1		530
As_2Pd			1.1		530

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
As_2Pd_5	0.46			Complex	491
As_2Pd_5	0.43-0.50				530
As_2Pt			0.35		491
As_3Pt_2			0.35		491
AsRh	0.58			B31, a=5.65, b=3.58, c=6.00	491
$AsRh_{1.4-1.6}$	<0.03-0.56			Hex.	491
$AsRh_{1.4}$				Hex., a=9.15, c=3.53 + weak a=9.15,c=5.19	491
$AsRh_{1.6}$				Hex., a=9.32, c=3.67	491
$AsRh_{1.7}$ (Quenched)				Ortho. Rh_2As + $Rh_{1.6}As$ phase	491
AsRu			0.35		491
$AsRu_2$			0.35		491
AsSn ($n = 2.14 \times 10^{22}$)	3.41-3.65			B1, a=5.72	470
$As_{\sim 2}Sn_{\sim 3}$	3.5-3.6, 1.21-1.17				470
As_3Sn_4 ($n = 0.56 \times 10^{22}$)	1.16-1.19			Rhomb., a=12.23, α= 19.23	470
Au (rapid quench)			0.32	A1, f.c.c.	487
Au_5Ba	0.4-0.7			$D2_d$, a=5.69, c=4.54	486
Au_5Ca	0.34-0.38			$C15_b$, a=7.747	486,535
AuGa	1.2			B31, a=6.40, b=6.27, c=3.42	486
$AuGa_2$			0.34	C1, a=6.07	486
$Au_{0.30}Ge_{0.70}$			0.32	h.c.p. + Ge	487
$Au_{0.33}Ge_{0.67}$			0.32	weak complex + h.c.p. + Ge	487

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Au_{0.40}Ge_{0.60}$	1.63			h.c.p. + Ge + weak complex	487
$Au_{0.47}Ge_{0.53}$	1.63			complex + weak Ge	487
$Au_{0.50}Ge_{0.50}$	1.63			complex + weak Ge	487
$Au_{0.54}Ge_{0.46}$	1.50			complex	487
$Au_{0.61}Ge_{0.39}$	1.31			complex	487
$Au_{0.70}Ge_{0.30}$	1.09			complex	487
$Au_{0.725}Ge_{0.275}$	0.99			complex + weak h.c.p.	487
$Au_{0.75}Ge_{0.25}$	Trace @ 0.5		0.32	Hex., h.c.p. + weak complex	487
$Au_{0.775}Ge_{0.225}$	Trace @ 0.5		0.32	Hex., h.c.p. weak + complex + f.c.c.	487
$Au_{0.90}Ge_{0.10}$ & $Au_{0.92}Ge_{0.08}$	Trace @ 0.9		0.32	Cubic, f.c.c.	487
$Au_{0.80}Hg_{0.20}$			0.32		489
$Au_{0.85}Hg_{0.15}$			0.32		489
AuIn	0.4-0.6			Complex	486
$AuIn_2$			0.34	C1, a=6.51	486
Au_5K			0.34	$D2_d$, a=5.64, c=4.48	486
AuLa			0.33		658
AuLu	<0.35			B2	658
$Au_{0.50}Mn_{0.50}$				Tet., Distorted CsCl	572#
Au_2Na			0.34	C15, a=7.81	486
$AuNb_3$	1.2			A2, a=3.29	568
$Au_{0-0.3}Nb_{1-0.7}$	1.1-11.0			A2 & A15	568
$AuNb_3$	11.5, 11.0			A15, a=5.2027	492,568, 572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Au_{0.02}Nb_3Rh_{0.98}$	2.53			A15, a=5.133	492
$Au_{0.05}Nb_3Rh_{0.95}$	2.52			A15, a=5.137	492
$Au_{0.10}Nb_3Rh_{0.90}$	2.70			A15, a=5.1412	492
$Au_{0.30}Nb_3Rh_{0.70}$	4.6			A15, a=5.1573	492
$Au_{0.50}Nb_3Rh_{0.50}$	6.6			A15, a=5.1688	492
$Au_{0.70}Nb_3Rh_{0.30}$	9.5			A15, a=5.1827	492
$Au_{0.90}Nb_3Rh_{0.10}$	10.8			A15, a=5.1960	492
$Au_{0.95}Nb_3Rh_{0.05}$	11.0			A15, a=5.200	492
$Au_{0.98}Nb_3Rh_{0.02}$	10.9			A15, a=5.203	492
$Au_{0.25}Nb_{0.075}V_{0.675}$				A15	572#
$Au_{0.25}Nb_{.1875}V_{.5625}$				A15	572#
$Au_{0.25}Nb_{.375}V_{.375}$				A15	572#
$Au_{0.25}Nb_{.5625}V_{.1875}$				A15	572#
$Au_{0.25}Nb_{.675}V_{0.075}$				A15	572#
$AuNb_{3(1-x)}V_{3x}$	1.5-11.0			A15, a=4.88-5.22	568
Au_2Pb	1.18, 7.12-5.98			C15, a=7.94	486,640
$AuPb_2$	3.15				475,521
$AuPb_2$ ▽	4.3				521 ▽
$AuPb_3$	4.40				475,521
$AuPb_3$ ▽	4.25				521 ▽
$Au_{0-0.04}Pt_{1-0.96}$				A1	572#
$Au_{0-1.00}Pt_{1.00-0}$				A1	572#
Au_5Rb			0.34	$D2_d$, a=5.6, c=4.4	486

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
AuSn	1.25			$B8_1$, a=4.32, c=5.52	486
Au_5Sn	0.7-1.1			A3, a=2.92, c=4.77	486
$AuSn_2$ ∇					577∇
Au_xSn_{1-x} ∇	2.0-3.8				577∇
$AuSn_4$ ∇					577∇
Au_3Te_5	1.62			Primitive cubic	487
$AuTi_3$				A15, a=5.094	522
$Au_{0.25}V_{0.75}$				A15	572#
Au_xZn_{1-x}	0.5-0.845				624
$B_{0.03}C_{0.51}Mo_{0.47}$ (Hot pressed & quenched from 2650°C)	12.5			α- MoC_{1-x} + η- Mo_3C_2	573
$BCMo_2$	5.4, 5.3-7.0			Ortho-rhombic	497,635
$B_xC_{1-x}Mo$ (quenched)	14.2 (broad 17.5-12.2)			Cubic + some Hex.	497
BMo	0.5 (extrapolated)				497
B_6Ca			1.28	$D2_1$, Cubic CaB_6, a=4.145	558
B_6Ce	Paramagnetic			$D2_1$, Cubic CaB_6, a=4.141	558
B_6Ce	Antiferro.		0.35		705
B_6Dy	Antiferro.		0.35		705
$B_{12}Er$	Antiferro.		0.35		705
B_6Eu	Paramagnetic			$D2_1$, Cubic CaB_6, a=4.175	558
B_6Eu	Ferro.		0.35		705

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
B_6Gd	Paramagnetic			$D2_1$, Cubic CaB_6 a=4.112	558
B_6Gd	Antiferro.		0.35		705
BHf	3.1			Cubic + extra lines	558
B_6Ho	Antiferro.		0.35		705
$B_{12}Ho$	Antiferro.		0.35		705
B_6La			1.30	$D2_1$, Cubic CaB_6 a=4.156	558
B_6La	5.7				705
$B_{12}Lu$	0.48				705
$B_{0.67}Nb_{0.33}$					572#
B_6Nd	Paramagnetic			$D2_1$, Cubic CaB_6, a=4.128	558
B_6Nd	Antiferro.		0.35		705
B_6Pr	Paramagnetic			$D2_1$, Cubic CaB_6 a=4.130	558
B_6Pr	Antiferro.		0.35		705
$B_{0.33}Re_{0.67}$					572#
B_2Sc			1.30	C32 Hex. AlB_2, a=3.15, c=3.52	558
B_4Sc			1.34		558
$B_{12}Sc$	0.39				705
B_6Sm			1.28	$D2_1$, Cubic CaB_6, a=4.133	558
BTa	4.0			B_f Ortho.	558
B_6Tb			1.28	$D2_1$, Cubic CaB_6, a=4.102	558
B_6Tb	Antiferro.		0.35		705

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
B_6Th			1.28	$D2_1$, Cubic CaB_6, a=4.113	558
B_6Th	0.74				705
BTi				B27, a=6.12, b=3.06, c=4.56	522
B_2Ti				C32, a=3.030, c=3.227	522
$B_{12}Tm$	Antiferro.		0.35		705
BW_2	3.1				474
B_6Y			1.30	$D2_1$, Cubic CaB_6, a=4.113	558
B_6Y	6.5-7.1				705#
$B_{12}Y$	4.7				705
B_6Yb			1.28	$D2_1$, Cubic CaB_6, a=4.144	558
BZr	3.4			Cubic + extra lines	558
$B_{12}Zr$	5.82				705#
$Ba_xO_3Sr_{1-x}Ti$*	<0.1-0.55	HF			611
$Ba_{0.13}O_3W$	1.9			Tet. I Phase, a=12.16, c=3.84	575
$Ba_{\sim 0.13}O_3W$	1.9			Tet., a=12.16, c=3.84	674
$Ba_{0.14}O_3W$	<1.25-2.2			Hex., a=7.307, c=7.426	644
Be^{∇}	~6.5	HF			550^{∇},580#
$Be_{22}Mo$ (Isotope Study)	2.485-2.529			Cubic, $Be_{22}Re$ type	566
$Be_{22}Mo$	2.51			Cubic, $Be_{22}Re$ type	566
$Be_{0.98}Re_{0.02}$ (Quenched)	9.75			Cubic, a=11.56 Like $Be_{22}Re$	578

* $n = 4.2 - 11 \times 10^{19}$

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Be_{1-0.92}Re_{0-0.08}$ (quenched)	8.9-9.75				578
$Be_{0.98-0.92}Re_{0.02-0.08}$	9.5-9.7				578
$Be_{0.957}Re_{0.043}$ (Quenched)	9.62			Cubic, a=11.56, like $Be_{22}Re$	578#
$Be_{0.957}Re_{0.043}$ (Annealed)	9.67			Cubic, a=11.56, like $Be_{22}Re$	578#
$Be_{22}Re$	9.65			Cubic, $Be_{22}Re$ type	566
$Be_{0.98}Re_{0.02}$ (Quenched)	9.75			Cubic, $Be_{22}Re$ type a=11.56	567
$Be_{0.995-0.92}Re_{0.005-0.08}$ (Quenched)	8.9-9.75				567
$Be_{0.98-0.92}Re_{0.02-0.08}$ (Annealed)	9.5-9.65				567#
BeTc	5.21			Cubic	566
$Be_{22}W$	4.12			Cubic, $Be_{22}Re$ type	566
BiII		HF			437
BiIII		HF			437
Bi$^{\nabla}$					602$^{\nabla}$
BiC			0.3		606
BiCo	0.49-0.42				606
BiCr			0.3		606
Bi_xCu_{1-x}(Electrodeposited)	2.2				590
BiCu	1.40-1.33				606
BiFe			0.3		606
$Bi_{0.05}In_{0.95}$	4.65			α - phase	634
$Bi_{0.10}In_{0.90}$	5.05			α - phase	634
$Bi_{0.15-0.30}In_{0.85-0.70}$	5.3-5.4			α & β phases	634
$BiIn_2$	5.65			β - phase	634

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Bi_3In_5	4.1				634
$Bi_{0.34-0.48}In_{0.66-0.52}$	4.0-4.1				634
BiIn			0.5	γ- phase	634
$Bi_{0.01}In_{0.99}$		HF			666
$Bi_{0.02}In_{0.98}$		HF			666
$Bi_{0.019}In_{0.981}$	3.86				544
BiIr			0.35		491
$BiIr_2$			0.35		491
Bi_2Ir	~2.3-1.7				606
Bi_2Ir (Quenched)	3.96-3.0				606
$Bi_{4-9}Mg$	~1.0-0.70				606
BiMn			0.3		606
Bi_3Mo	3.7-3.0				606
$BiNb_3$			2.25	Cubic, a=3.327	508
$BiNb_3$ (High pressure and temperature)	3.05			A15, a=5.320	508
BiOs			0.3		606
$Bi_{0.95}Pb_{0.05}$ ▽			1.03		484▽
$Bi_{0.99}Pb_{0.01}$ ▽			1.03		484▽
$Bi_{1-0}Pb_{0-1}$ ▽	7.25-8.67				484▽
$Bi_{1-0}Pb_{0-1}$	7.26-9.14				83
$Bi_{0.05-0.40}Pb_{0.95-0.60}$	7.35-8.4	HF		HCP to ε-phase	677
$Bi_{7.5}Pb_{92.5}$ (w/o)		HF			685

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$BiRe_2$	2.20-1.9				606
BiRu			0.35		491
$BiRu_2$			0.35		491
BiRu	5.7, 4.12-3.31				606
BiRu (Quenched)	2.7- <2				606
BiS			0.3		606
BiSc			0.3		606
Bi_3Sn	3.77-3.72, 3.67-3.63				606
Bi_3Te	~1.0-0.75				606
$Bi_{0-0.002}Tl$	T_c' = (+0.01)				591
BiW			0.3		606
Bi_3Zn	0.87-0.80, 0.80-0.77				606
$BiZr_3$	2.84-2.35				606
$BiZr_3$ (Annealed)	3.4-0.4				606
C (pyrolytic graphite)			0.011		494
$CCdTi_2$			1.1	Hex., H-Phase	632
CCr_2Ga			1.1	Hex., H-Phase	632
CCs_x	0.020-0.135			Hex.	494
C_8Cs (gold)	0.020-0.135				494
$C_{16}Cs$ (blue)			0.011		494
$CGaMo_2$	4.1-3.7			Hex., H-Phase	635

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$C_{0.985}Hf$			1.28	B1, a=4.63	559,560,558
CHf_2In			1.1	Hex., H-Phase	632
$CHf_{0.9}Mo_{0.1}$			1.38	B1	559,560,558
$CHf_{0.8}Mo_{0.2}$			1.38	B1	559,560,558
$CHf_{0.85}Mo_{0.15}$			1.38	B1	559,560,558
$CHf_{0.75}Mo_{0.25}$			1.4	B1	559,560,558
$CHf_{0.5}Mo_{0.5}$	3.4			B1, a=4.450	559,560,558
$CHf_{0.3}Mo_{0.7}$	5.5			B1	559,560,558
$CHf_{0.25}Mo_{0.75}$	6.6			B1	559,560,558
$CHf_{0.2}Mo_{0.8}$	8.0			B1, a=4.337	559,560,558
$CHf_{0.17}Mo_{0.83}$	8.7			B1	559,560,558
$CHf_{0.15}Mo_{0.85}$	9.0			B1, a=4.310	559,560,558
$CHf_{0.07}Mo_{0.93}$	8.2			B1	559,560,558
$C_{0.75}Hf_{0.05}Mo_{0.95}$	14.2			B1	650
$CHf_{0.9}Nb_{0.1}$			4.2	B1	559,560,558
$CHf_{0.8}Nb_{0.2}$	5.4			B1	559,560,558
$CHf_{0.7}Nb_{0.3}$	6.1			B1	559,560,558
$CHf_{0.6}Nb_{0.4}$	4.5			B1	559,560,558
$CHf_{0.5}Nb_{0.5}$	4.8			B1, a=4.55	559,560,558
$CHf_{0.4}Nb_{0.6}$	5.6			B1	559,560,558
$CHf_{0.25}Nb_{0.75}$	7.0			B1	559,560,558
$CHf_{0.2}Nb_{0.8}$	7.8			B1	559,560,558

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$CHf_{0.9}Ta_{0.1}$	5.0			B1	559,560,558
$CHf_{0.8}Ta_{0.2}$	5.4			B1	559,560,558
$CHf_{0.7}Ta_{0.3}$	5.1			B1, a=4.56	559,560,558
$CHf_{0.6}Ta_{0.4}$	5.2			B1	559,560,558
$CHf_{0.5}Ta_{0.5}$	5.5			B1	559,560,558
$CHf_{0.4}Ta_{0.6}$	6.1			B1	559,560,558
$CHf_{0.3}Ta_{0.7}$	7.9			B1	559,560,558
$CHf_{0.2}Ta_{0.8}$	8.7			B1	559,560,558
$CHf_{0.1}Ta_{0.9}$	9.0			B1	559,560,558
$CHf_{0.6}Zr_{0.4}$			1.28	B1	558
$CInNb_2$			1.1	Hex., H-Phase	632
$CInZr_2$			1.1	Hex., H-Phase	632
CK_x	0.55M				494
CK (Excess K)	0.55	HF		Hex.	494
C_8K	0.39	HF		Hex.	494
C_8K (gold)	up to 0.55	HF			494
$C_{16}K$ (blue)			0.011	Hex.	494
α-$C_{1-x}Mo_x$ (quenched)	14.2		·	Cubic + some Hex.	497
$C_{1-x}Mo_x$ (quenched)	8.8			Hex., ηMo_3C_2	497
$C_{1-x}Mo_x$ (quenched)	9.4-11.7			ηMo_3C_2 + partial α-MoC_{1-x}	497
$C_{0.40}Mo_{0.60}$ (quenched)	11.7			Some B1	497
$CMo_{0.83}Ti_{0.17}$	10.2			B1, a=4.290	522

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$C_{0.42}Mo_{0.58}$ (Hot pressed & quenched from 1650°C)	9.0			Hex., η - Mo_3C_2	573
$C_{0.41}Mo_{0.59}$ (Hot pressed & quenched from 2200°C)	9.6			Hex., η - Mo_3C_2	573
$C_{0.40}Mo_{0.60}$ (Hot pressed & quenched from 2200°C)	11.0			η - Mo_3C_2 + α - MoC_{1-x}	573
$C_{0.40}Mo_{0.60}$ (Hot pressed & quenched from 1650°C)	9.0			η - Mo_3C_2 + trace Mo_2C	573
$C_{0.42}Mo_{0.58}$ (Hot pressed & quenched from 2200°C)	9.5			Hex., η - Mo_3C_2	573
$C_{0.41}Mo_{0.59}$ (Hot pressed & quenched from 2320°C)	12.0			α - MoC_{1-x} + trace η - Mo_3C_2	573
$C_{0.44}Mo_{0.56}$ (Hot pressed & quenched)	13.0			α - MoC_{1-x} + trace η - Mo_3C_2	573
$C_{0.40}Mo_{0.60}$ (Hot pressed & quenched from 2650°C)	12.2			α - MoC_{1-x} + η - Mo_3C_2	573
CMo (quenched, 2200°C)	12.5-13.5			Cubic + Hex.	571
$C_{0.44}Mo_{0.56}$	12.5-13.5	1300, HF		Cubic + Hex	571
$C_{0.40}Mo_{0.60}$ (+2% VC)	11.2-13.2				571
CMo	6.5			Hex.	558,559,560
CMo_2	12.2			Ortho.	650
$C_{1-x}Mo_2$	10.8, 8.1			Ortho.	650

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$C_{0.40}Mo_{0.60}$	9.0			Hex.	691
$C_{0.44}Mo_{0.56}$	1.30			B1	691
$C_{0.6}Mo_{4.8}Si_3$	7.6			$D8_8$	650
$CMo_{0.2}Ta_{0.8}$	7.5			B1, a=4.432	559,560,558
$CMo_{0.5}Ta_{0.5}$	7.7			B1, a=4.400	559,560,558
$CMo_{0.75}Ta_{0.25}$	8.5			B1, a=4.326	559,560,558
$CMo_{0.8}Ta_{0.2}$	8.7			B1, a=4.310	559,560,558
$CMo_{0.85}Ta_{0.15}$	8.9			B1	559,560,558
$C_{0.15}N_{0.35}Nb_{0.50}$					572#
$C_xN_{1-x}Nb$	8.5-17.3	HF			582
$C_{0.9}N_{0.1}Nb$	10.5			B1	559,561,558
$C_{0.8}N_{0.2}Nb$	12.4			B1	559,561,558
$C_{0.7}N_{0.3}Nb$	13.8			B1	559,561,558
$C_{0.6}N_{0.4}Nb$	14.7			B1	559,561,558
$C_{0.5}N_{0.5}Nb$	16.1			B1	559,561,558
$C_{0.4}N_{0.6}Nb$	17.4			B1	559,561,558
$C_{0.35}N_{0.65}Nb$	17.8			B1	559,561,558
$C_{0.3}N_{0.7}Nb$	17.5			B1	559,561,558
$C_{0.28}N_{0.72}Nb$	17.9			B1	559,561,558
$C_{0.26}N_{0.74}Nb$	17.8			B1	559,561,558
$C_{0.24}N_{0.76}Nb$	17.6			B1	559,561,558
$C_{0.22}N_{0.78}Nb$	17.8			B1	559,561,558

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$C_{0.2}N_{0.8}Nb$	17.6			B1	559,561,558
$C_{0.1}N_{0.9}Nb$	16.7			B1	559,561,558
$C_{0-0.38}N_{1-0.62}Ta$	10.0-11.3				691
$C_{0.35-0.50}Nb_{0.65-0.50}$				B1	572#
$C_{0.428}Nb_{0.572}$					572#
$C_{0.487}Nb_{0.513}$					572#
$C_{0.495}Nb_{0.505}$					572#
CNb (Whiskers)	7.5-10.5	HF			582
CNb	8-10	800, HF		Cubic	571
$C_{0.984}Nb$	9.8			B1, a=4.47	559,560,558
CNb_2	9.1				474
$C_{\sim0.7-1.0}Nb_{\sim0.3-\sim0}$	6-11			B1	497
CNb_2Sn			1.1	Hex., H-Phase	632
CNb_xTa_{1-x}	8.2-13.9				628
$CNb_{0.4}Ta_{0.6}$	10-13.6	990, HF		Cubic	571
$CNb_{0.8}Ta_{0.2}$	9.7			B1	559,560,558
$CNb_{0.5}Ta_{0.5}$	9.6			B1	559,560,558
$CNb_{0.2}Ta_{0.8}$	9.4			B1	559,560,558
$CNb_{0.1}Ti_{0.9}$			4.2	B1	559,560,558
$CNb_{0.2}Ti_{0.8}$	4.4			B1	559,560,558
$CNb_{0.3}Ti_{0.7}$	5.0			B1	559,560,558
$CNb_{0.4}Ti_{0.6}$	5.0			B1	559,560,558

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$CNb_{0.5}Ti_{0.5}$	4.6			B1	559,560,558
$CNb_{0.6}Ti_{0.4}$	4.8			B1	559,560,558
$CNb_{0.7}Ti_{0.3}$	5.8			B1, a=4.37	559,560,558
$CNb_{0.8}Ti_{0.2}$	7.0			B1	559,560,558
$CNb_{0.9}Ti_{0.1}$	8.8			B1	559,558,560
$CNb_{0.6}W_{0.4}$	12.5			B1, diffuse lines	558
$CNb_{0.8}W_{0.2}$	12.7			B1, a=4.425	558
$CNb_{0.9}W_{0.1}$	11.6			B1	558
$CNb_{0.1}Zr_{0.9}$	4.2			B1	559,560,558
$CNb_{0.2}Zr_{0.8}$	6.4			B1	559,560,558
$CNb_{0.3}Zr_{0.7}$	6.2			B1	559,560,558
$CNb_{0.4}Zr_{0.6}$	4.8			B1	559,560,558
$CNb_{0.5}Zr_{0.5}$	4.9			B1	559,560,558
$CNb_{0.6}Zr_{0.4}$	5.6			B1	559,560,558
$CNb_{0.7}Zr_{0.3}$	6.0			B1, a=4.55	559,560,558
$CNb_{0.8}Zr_{0.2}$	7.5			B1	559,560,558
$CNb_{0.9}Zr_{0.1}$	8.4			B1	559,560,558
$CPbTi_2$			1.1	Hex., H-Phase	632
CRb_x	0.023-0.151			Hex.	494
C_8Rb (gold)	0.023-0.151				494
$C_{16}Rb$ (blue)			0.011		494
$CRe_{0.01}W$	2.6	HF			603
$CRe_{0.02}W$	3.7	HF			603

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$CRe_{0.4}W$	4.3	HF			603
$CRe_{0.06}W$	5.0	HF			603
$CRe_{0.08}W$	1.3				603
$C_{0.96}Sc$			1.38	B1, a=4.54	558
CTa	9-11.4	810, HF		Cubic	571
$C_{0.984}Ta$	9.2			B1, a=4.45	559,560,558
$C_{0.962}Ta$	7.4			B1	559,560,558
CTa^{∇} (sputtered)	5.09			B1	505^{∇}
CTa_2	3.2				474
CTi				B1, a=4.329	522
$CTa_{0.4}Ti_{0.6}$	4.8			B1	558
$CTa_{1-0.40}W_{0-0.60}$	8.5-10			B1, a=4.454-4.345	694
$CTa_{0.50}W_{0.50}$	1.01				494
$CTa_{0.2}Zr_{0.8}$			4.2	B1	559,560,558
$CTa_{0.3}Zr_{0.7}$	5.1			B1	559,560,558
$CTa_{0.4}Zr_{0.6}$	4.9			B1, a=4.57	559,560,558
$CTa_{0.5}Zr_{0.5}$	4.6			B1	559,560,558
$CTa_{0.6}Zr_{0.4}$	4.7			B1	559,560,558
$CTa_{0.7}Zr_{0.3}$	6.0			B1	559,560,558
$CTa_{0.8}Zr_{0.2}$	7.7			B1	559,560,558
$CTa_{0.9}Zr_{0.1}$	8.3			B1	559,560,558
CTc (Excess C)	3.85			Cubic, a=3.985	633
$C_{0.986}Ti$			1.28	B1, a=4.32	559,560,558

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$CTi_{0.5}W_{0.5}$	6.7			B1	558
$CTi_{0.6}W_{0.4}$	4.4			B1, a=4.31	558
$CTi_{0.7}W_{0.3}$	2.1			B1	558
$CTi_{0.8}W_{0.2}$			1.38	B1	558
$CTi_{0.8}Zr_{0.2}$			1.28	B1	558
$CTi_{0.6}Zr_{0.4}$			1.28	B1	558
$C_{0.50}V_{0.50}$					572#
$C_{0.922}V$			1.28	B1, a=4.18	559,560,558
$C_{<1}V$			1.17	B1, a=4.169	694
$CV_{0.4}Zr_{0.6}$			4.2	B1	558
CW	1.0				603
$C_{0.92}Y$			1.38	B1, a=4.68	559,558,560
$C_{0.992}Zr$			1.28	B1, a=4.68	559,558,560
$CaCu_5$			0.34	$D2_d$, a=5.09, c=4.09	486
$CaZn_5$			0.34	$D2_d$, a=5.42, c=4.19	486
$Ca_xO_3Sr_{1-x}Ti$*	<0.1-0.55	HF			611
$Ca_{0.10}O_3W$	1.4-3.4			Hex., a=7.397,c=7.569	644
Cd	0.518	29.6, HF			537
Cd (isotopes)					546
$Cd_{0.02}Hg_{0.98}$		HF			666
$Cd_{0.0075-0.05}In_{1-x}$	3.24-3.36			Tet., SS	670

* $n = 3.7 - 11.0 \times 10^{19}$

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Cd_{0-0.012}Tl$	T_c' (-0.010)				591
$Cd_{0-0.0815}Zr_{1-0.9185}$				A3	572#
Ce (at 10 kbar)			0.04	A1	656
Ce (at 50 kbar)	1.7				618
Ce (0-10,000 atm.)			1.25	α- Ce, dense f.c.c.	542
$CeCo_2$	0.84			C15	655
$CeCo_{1.67}Ni_{0.33}$	0.46			C15	655
$CeCo_{1.33}Ni_{0.67}$			0.33	C15	655
$CeCo_{1.33}Rh_{0.67}$			0.33	C15	655
$CeCo_{1.67}Rh_{0.33}$	0.47			C15	655
$CeIr_3$	3.34				469
$CeIr_5$	1.82				469
$CeIr_{1.8}$			0.32	C15, a=7.581	469
$Ce_{0.005}La_{0.995}$	4.6				608
$Ce_{0.01}La_{0.99}$	3.9				608
$Ce_{0.013}La_{0.987}$	3.3				608
$CeNi_2$			0.015	C15	655
$CePt_2$			0.32	C15, a=7.730	469
$CePt_3$			0.32	C15, a=7.640	469
$CePt_5$			0.32	$D2_d$, a=5.369,c=4.385	469
$Ce_{0.20-0.173}Pt_{0.80-0.826}$	1.26-0.70, 1.55M (portion only)				469
$CeRu_2$	6.0			C15	657

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Ce_2S_3	Paramagnetic			Cubic, b.c. Ce_2S_3 a=8.618	558
Co					572#
$Co_{0-0.75}Fe_{1.00-0.25}$				A2	572#
$Co_{0-0.04}Fe_{1-0.96}$					572#
$Co_{0.93}Fe_{0.07}$				A1	572#
$Co_{0-0.587}Fe_{1-0.413}$				A2	572#
$Co_{0.915}Fe_{0.085}$				A1	572#
$Co_{0.30}Fe_{0.70}$				A2	572#
Co_xFe_yTi				B2	572#
$CoLa_3$	4.28			DO_{11}	658
$CoLa_3$	4.01			DO_{20}, a=7.279, b=10.088, c=6.578	469
$CoLu_3$	0.35+++ (portion only)				469
Co_2Lu			0.32	C15, a=7.123	469
$Co_{0.02}Nb_3Rh_{0.98}$	2.28			A15, a=5.132	492
$Co_{0.05}Nb_3Rh_{0.95}$	1.96			A15, a=5.135	492
$Co_{0.10}Nb_3Rh_{0.90}$	1.90			A15, a=5.1347	492
$Co_{0.70}Ni_{0.30-1}$				A1	572#
$Co_{0.60}Ni_{0.40}$				A1	572#
$Co_{0.16}Ni_{0.64}P$			0.99		601
$Co_{0.39}Ni_{0.40}P$			0.99		601
$Co_{0.52}Ni_{0.26}P$			0.99		601

+++ Beginning of transition

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Co_{0.64}Ni_{0.15}P$			0.99		601
Co_xNi_yTi				B2	572#
Co_2P			0.97	C23	601
$Co_{0.95-0.005}Pd_{0.05-0.995}$					572#
$Co_{\sim 0.001}Pd_{\sim 0.999}$				A1	572#
$Co_{0.035-0.01}Pt_{0.965-0.99}$					572#
$CoSc_3$			0.32		658
$CoSc_2$			0.32	C16, a=6.374, c=5.616	469
$CoSc_3$			0.32		469
$Co_{0.28-0.32}Sc_{0.72-0.68}$	0.35^{+++} (portion only)				469
Co_5Th			0.32	$D2_d$, a=5.005, c=3.987	469
Co_xTi_y					522
$Co_{0.50}Ti_{0.50}$				B2, CsCl, ord.	572#
$Co_{0.28}Y_{0.72}$	0.34				469
CoY_2			0.32		469
CoY_3	0.34^{+++} (portion only)				469
$Co_{(0-150\ ppm\ at.)}Zn$	T_c' (-0.075)				598
Cr	Antiferro.		1.4	A2	514#,572#
Cr^{∇}			0.3		503^{∇},615^{∇}
$Cr_{0.98-0}Fe_{0.02-1}$				A2	572#
$Cr_{0.441}Fe_{0.559}$				A2	572#
$Cr_{0.441}Fe_{0.559}$				$D8_b$	572#

+++ Beginning of transition

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Cr_{0.02-0.005}Fe_{0.98-0.995}$					572#
$Cr_{0.90}Mn_{0.10}$				A2	572#
$Cr_{0.80}Mn_{0.20}$				A2	572#
$Cr_{0.69}Mn_{0.31}$				A2	572#
$Cr_{0.61}Mn_{0.39}$				A2	572#
$Cr_{0.50}Mn_{0.50}$				A2	572#
$Cr_{0.92-0}Mo_{0.08-1}$				A2	572#
$Cr_{0.01-0.03}NNb$					572#
$Cr_{1-0.98}Nb_{0-0.02}$				A2	572#
$Cr_{0.80}Os_{0.20}$	2.5			Cubic, b.c. a=2.925	556#
$Cr_{0.60}Os_{0.40}$			1.40	$D8_b$	557
$Cr_{0.95-0.80}Os_{0.05-0.20}$				A2	572#
CrOsV					572#
Cr_3P			1.01	DO_e	601
CrP			1.01	B31	601
$Cr_{0.005}Pt_{0.995}$				A1	572#
$Cr_{0.40}Re_{0.60}$	2.15			$D8_b$	557#
$Cr_{1-0.62}Re_{0-0.38}$				A2	572#
$Cr_{0.40}Re_{0.60}$				$D8_b$	572#
CrReV					572#
$Cr_{0.93-0.86}Re_{0.07-0.14}$				A2	572#
$Cr_{1-0.99}Ta_{0-0.01}$				A2	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Cr_{0.025}Ti_{0.975}$				A3	572#
$Cr_{0.025}Ti_{0.975}$	3.5			+ ω?	477#
Cr_xTi_y (quenched)			1.1		523
Cr_xTi_y					522
$Cr_{0.011}Ti_{0.967}V_{0.022}$	3.6			+ ω?	477#
$Cr_{0.10}Ti_{0.30}V_{0.60}$	5.6	1360, HF			584
$Cr_{0.10}Ti_{0.30}V_{0.60}$	>4.2	HF			616
$Cr_{0.0175}U_{0.9825}$	0.75			β-phase	700
$Cr_{0.23-0.95}V_{0.77-0.05}$				A2	572#
$Cr_{0.95-0.99}V_{0.05-0.01}$				A2	572#
$Cr_{0.98-.90}W_{0.02-.10}$				A2	572#
$Cr_{0.84}W_{0.16}$					572#
$Cr_{(0-13\ ppm\ at.)}Zn$	T_c' (-0.25)				598
Cs			0.011		494
$Cs_{0.32}O_3W$	1.12			Hex., a=7.4, c=7.6	500
Cu					537#
Cu				A1	572#
Cu_3Ga			1.4		585
Cu_3Ga			1.4		533
CuLa	5.85				658
$Cu_{0.03}Mn_{0.97}$				A1	572#
$Cu_{0.05}Mn_{0.95}$				A1	572#
$Cu_{0.09}Mn_{0.91}$				A1	572#

Material	T_c (K)	H_o (oersteds)	T_n**	Crystal Structure ∞	Ref.
$Cu_{0.18}Mn_{0.82}$				A1	572#
$Cu_{0.27}Mn_{0.73}$				A1	572#
$Cu_{0.27}Mn_{0.73}$				A1	572#
$Cu_{0.42}Mn_{0.58}$				A1	572#
$Cu_{0.57}Mn_{0.43}$				A1	572#
$Cu_{0.76}Mn_{0.24}$				A1	572#
$Cu_{0.87}Mn_{0.13}$					572#
Cu_3N			1.38		558
$Cu_{0.01}Ni_{0.99}$				A1	572#
$Cu_{0.10-0.55}Ni_{0.90-0.45}$				A1	572#
$Cu_{0.18-0.78}Ni_{0.82-0.22}$				A1	572#
$Cu_{0.57}Ni_{0.43}$					572#
$Cu_{0.58}Ni_{0.42}$				A1	572#
$Cu_{0.63}Ni_{0.37}$				A1	572#
$Cu_{0.69}Ni_{0.31}$				A1	572#
$Cu_{0.73}Ni_{0.27}$				A1	572#
$Cu_{0.89}Ni_{0.11}$				A1	572#
$Cu_{0.94}Ni_{0.03}Zn_{0.03}$				A1	572#
$Cu_{0.84}Ni_{0.08}Zn_{0.08}$				A1	572#
$Cu_{0.50}Pt_{0.50}$				Rhomb.	572#
CuS_2	1.48-1.53			C18, a=5.790	643
CuSSe	1.5-2.0			C18, a=5.923	643

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$CuSe_2$	2.30-2.43			C18, a=6.123	643
CuSeTe	1.6-2.0			C18, a=6.302	643
$CuTe_2$	<1.25-1.3			C18, a=6.600	643
CuTi				B11, a=3.108, c=5.887	522
CuY			0.33	B2	658
Cu_xZn_{1-x}	0.5-0.845				624
Fe					572#
$Fe_{0.96-0.88}Ge_{0.04-0.12}$				A2	572#
$Fe_{0.939-0.910}Ir_{0.061-0.090}$					572#
$Fe_{0.05-0.01}Ir_{0.95-0.99}$					572#
$Fe_{0.01}Ir_{0.985}Y_{0.005}$					563
$Fe_{0.01}Ir_{0.99}Y_{0.0005}$					563
$Fe_{0.01}La_{0.01}Rh_{0.98}$	~0.75				563
$Fe_{0.01}La_{0.001}Rh_{0.99}$	~0.75				563
$Fe_{0.53}Mn_{0.47}$				A1	572#
$Fe_{0.55}Mn_{0.45}$				A1	572#
$Fe_{0.66}Mn_{0.34}$				A1	572#
$Fe_{0.76}Mn_{0.24}$				A1	572#
$Fe_{0.84}Mn_{0.16}$				A1	572#
$Fe_{0.89}Mn_{0.11}$				A1	572#
$Fe_{0.98-0.995}Mn_{0.02-0.005}$					572#
$Fe_{0.60}Mn_{0.25}Ni_{0.15}$				A1	572#
$Fe_{0.45}Mn_{0.25}Ni_{0.30}$				A1	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Fe_{0.30}Mn_{0.25}Ni_{0.45}$				A1	572#
$Fe_{0.15}Mn_{0.25}Ni_{0.60}$				A1	572#
$Fe_{1-0.98}Mo_{0-0.02}$					572#
$Fe_{1-0.99}Nb_{0-0.01}$					572#
$Fe_{1-0.96}Ni_{0-0.04}$					572#
$Fe_{0.72}Ni_{0.28}$				A1	572#
$Fe_{0.647}Ni_{0.353}$					572#
$Fe_{0.63}Ni_{0.37}$				A1	572#
$Fe_{0.60}Ni_{0.40}$				A1	572#
$Fe_{0.55}Ni_{0.45}$				A1	572#
$Fe_{0.52}Ni_{0.48}$				A1	572#
$Fe_{0.45}Ni_{0.55}$				A1	572#
$Fe_{0.42}Ni_{0.58}$				A1	572#
$Fe_{0.20}Ni_{0.80}$				A1	572#
$Fe_{0.16}Ni_{0.84}$				A1	572#
$Fe_{0.05}Ni_{0.95}$				A1	572#
$Fe_{0.03}Ni_{0.97}$				A1	572#
$Fe_{0.01}Ni_{0.99}$				A1	572#
$Fe_{0.19}Ni_{0.60}P$			0.99		601
$Fe_{0.26}Ni_{0.52}P$			0.99		601
$Fe_{0.31}Ni_{0.48}P$			0.99		601
$Fe_{0.9925}Os_{0.0075}$					572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
Fe_2P			0.97	C22	601
FeP			0.97	B31	601
$Fe_{0.5}PPd_3$			0.35		491
$Fe_{0.0152-0}Pd_{0.9848-1}$				A1	572#
$Fe_{0.9679}Pt_{0.0321}$					572#
$Fe_{0.005}Pt_{0.995}$				A1	572#
$Fe_{0.9985}Re_{0.0015}$					572#
$Fe_{0.90}Re_{0.10}$				A2	572#
$Fe_{0.01}Rh_{0.99}$					572#
$Fe_{0.50}Ru_{0.50}$				A3	572#
$Fe_{0.25}Ru_{0.75}$				A3	572#
$Fe_{0.946}Sb_{0.054}$				A2	572#
$Fe_{0.99-0.98}Si_{0.01-0.02}$					572#
$Fe_{0.96-0.75}Si_{0.04-0.25}$				A2	572#
$Fe_{0.96-0.92}Sn_{0.04-0.08}$				A2	572#
$Fe_{0-0.015}Ti_y$					554#
$Fe_{0.010}Ti_{0.990}$				A3	572#
$Fe_{0.015}Ti_{0.985}$				A3	572#
$Fe_{0.08}Ti_{0.92}$				A2	572#
$Fe_{0.50}Ti_{0.50}$				B2	572#
$Fe_{0.98-0.995}Ti_{0.02-0.005}$					572#
$Fe_{0.01}Ti_{0.99}$	2.3				477#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Fe_{0.015}Ti_{0.985}$	2.8				477#
$Fe_{0.08}Ti_{0.92}$				A2	477#
Fe_xTi_y					522
Fe_4TiZr					572#
$Fe_{0.044}V_{0.956}$				A2	572#
$Fe_{0.138}V_{0.862}$				A2	572#
$Fe_{0.08-0.67}V_{0.92-0.33}$				A2	572#
$Fe_{0.22}V_{0.78}$					572#
$Fe_{0.26}V_{0.74}$				A2	572#
$Fe_{0.31}V_{0.69}$				A2	572#
$Fe_{0.67}V_{0.33}$				A2	572#
$Ve_{0.90}V_{0.10}$				A2	572#
$Fe_{0.98-0.995}V_{0.02-0.005}$					572#
$Fe_{1-0.99}W_{0-0.01}$					572#
$Fe_{(0-\sim200ppm\ at.)}Zn$	T'_c (-~0.25)				598
Ga∇	7.2				596∇
Ga	6.2			β-phase	642
Ga	7.62	HF		γ-phase	642
Ga	1.078	58.9			537#,580#
$GaLa_3$	5.84				658
$GaLu_3$			1.1		659
GaN (Black)	5.85			B4, Hex., a=3.182 c=5.173	433,558
GaN			~2.		528

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
GaN_xO_{1-x} (Brown)			1.38		433,558
Ga_xNb_{1-x}		HF			583
GaP			1.68	B3, Cubic ZnS, a=5.436	558
GaPt			0.34	B20, a=4.91	486
Ga_2Pt	1.7-1.9				486
GaSb (120 kbar, 77°K, Annealed)	4.24	HF		A5	695
GaSb (Unannealed)	~5.9				695
$GaSc_3$			1.1		659
$Ga_{0-0.05}Sn_{1-0.95}$	3.703-3.938				576
$Ga_{0-1}Sn_{1-0}$ (Quenched)	3.47-4.18				576
$Ga_{0-1}Sn_{1-0}$ (Annealed)	2.6-3.85				576
GaV_3	14.2-14.6				645
$GaV_{2.1-3.5}$	6.3-14.45	HF		A15, a=4.813-4.829	646
$GaV_{\sim 3}$	14.45			A15, a=4.818	646
GaV_3		HF			564
$Ga_{0.25}V_{0.75}$				A15	572#
Ga_5V_2			2.1	Tet., a=8.9723, c=2.6895, Hg_5Mn_2 type	661
$Ga_{\sim 0.46}V_{\sim 0.54}$			2.1	Hex., a=8.496, c=5.174	661
GaV_3	14.47	HF		A15	684

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$GaV_{4.5}$	9.15	HF			684
$Ga_{0.23-0.26}V_{0.77-0.74}$ (Annealed)	14.3M				479
$Ga_{0.23-0.26}V_{0.77-0.74}$ (Annealed)	14.5R				479
GaY_3			1.1		659
$Gd_{0-0.02}La_{1-0.98}$					572#
Gd_xLa_{1-x}	<1.0-5.5				608
$Gd_{0.008}La_{0.992}$					613#
$Ge_{0.0036-0.0085}Pd_{0.9964-0.9915}$					572#
$Gd_{0.005}Pt_{0.995}$			A1		572#
$Ge_{0-0.06}Y_{1-0.94}$					572#
$Gd_{1-0.7}Y_{0-0.3}$			4.2		663
Ge (~120 kbar pressure)	4.85-5.4				540
Ge_7Ir_3	0.87 (portion only)				491
$Ge_{0.667}La_{0.333}$				Tet., b.c.	572#
Ge_2La	2.2				676#
$GeMo_3$	1.4				474
Ge_3N_4			1.38		558
$GeNb_3$ (quenched)	17.-6. + some below 4.			A15	498
$Ge_{0.25-0.29}Nb_{0.75-0.71}$	6.			A15	498

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$GE_{0.29}Nb_{0.71}$	6.			A15, a=5.149	498
$GePd_2$			0.35		491
$Ge_{1.5}Pd$	Trace				491
Ge_2Pd_5			0.35		491
GeTe (Ag doped)($n=27x10^{20}$)	0.21				481
GeTe (Ag doped)($n=64x10^{20}$)	0.41				481
$Ge_{1-x}Te_x$ ($n=9-16x10^{20}$)	0.07-0.31			B1	482
$Ge_{0.937}Te$ ($n=14.3x10^{20}$)	0.30				501
$Ge_{0.950}Te$ ($n=11.8x10^{20}$)	0.24				501
$Ge_{0.963}Te$ ($n=9.3x10^{20}$)	0.17				501
$Ge_{0.976}Te$ ($n=8.5x10^{20}$)	0.07				501
$Ge_{1.006}Te$ ($n=7.5x10^{20}$)			0.02		501
Ge_3Te_4 ($n=1.06x10^{22}$)	1.55-1.80			Rhomb. a=13.11, α=17.93	470
$Ge_{\sim 3}Te_{\sim 4}$ ($n=1.06x10^{22}$)	1.80-1.55			Rhomb. a=13.11, α=17.93	622
$Ge_{0.950}Te$	0.17-0.27				623#
Ge_2Ti				C54, a=8.594,b=5.030, c=8.864	522
Ge_3Ti_5				$D8_8$, a=7.552,c=5.234	522
GeV_3	6.0,6.1				474,645
$Ge_{0.25}V_{0.75}$				A15	572#
$Ge_{0.618}Y_{0.382}$				Tet., b.c.	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Ge_{1.62}Y$	2.4				676#
$H_{1.8}La$ (with free La)			1.1		488
$H_{1.96}La$			0.33		488
$H_{2.03}La$			1.1		488
$H_{2.11}La$			1.1		488
$H_{2.15}La$			1.1		488
$H_{2.36}La$			1.1		488
$H_{>0.41}Nb$		HF	1.8	Ortho.	631
$H_{0.36-0.47}Pd_{0.64-0.53}$					572#
Hf					572#
Hf_2InN			1.1	Hex., H-Phase	632
$NfN_{0.989}$	6.6			B1, a=4.50	559,558
$Hf_{0.75}Nb_{0.25}$ (Arc Cast)	>4.2	HF			616
$Hf_{0.75}Nb_{0.25}$ (Cold rolled)	>4.2	HF			616
$Hf_{0.30}Ta_{0.70}$				A2	572#
$Hf_{0.50}Ti_{0.50}$				A3	572#
HfV_2	9.57-8.9			C15	640
$Hf_{0.50}Zr_{0.50}$				A3	572#
Hg	4.154	410.88			579#.
Hg	4.16	380			527#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Hg_5Mn_2			2.1		661
$Hg_{0.80}Pt_{0.20}$			0.32		489
$Hg_{0-0.012}Tl$	T_c = (-0.13)				591
In	3.407	282.66			579#
In (Particles)	3.396				604
In^{∇}	3.7				532∇,596∇,602∇
$InLa_3$	9.83			$L1_2$	658
$InLa_3$ (0-35 kbar)	9.75-10.55				658
$In_{1-x}Mn_x$	T_c (-0.28)				598
$In_{1-x}Mn_xPb$	T_c (-0.016)				598
InN	3.38?			B4, hex., ZnS, a=3.540, c=5.706	558
$InNTi_2$			1.1	Hex., H-Phase	632
$InNb_3$			2.25	Cubic, a=3.326	508
$InNb_3$ (high pressure & temperature)	4-8			A15, a=5.303	508
$In_{0.11}O_3W$	<1.25-2.8			Hex., a=7.407, c=7.545	644
$In_{1-x}Pb_x$					609
$In_{0.17}Pb_{0.83}$		HF			627
$In_{0.98}Pb_{0.02}$	3.45	310, HF			662
$In_{0.96}Pb_{0.04}$	3.68	348, HF			662
$In_{0.94}Pb_{0.06}$	3.90	385, HF			662
$In_{0.913}Pb_{0.087}$	4.2	HF			665
$In_{0.30}Pb_{0.70}$		HF			683

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$In_{1-0.90}Pb_{0-0.10}$	0.7-1.1	HF			480#
InPd	0.7			B2	489
InRh			0.32	B2	489
InSb	2.1	1100			471
InSb (Metallic)	1.6-2.1			β-Sn structure; a=5.72, b=3.18	502
InSb (Quenched)	2.1			Tet., a=5.79, c=3.15	539
InSb (From 170 kbar in Liq. N_2)	4.8			Like A5	681
InSb (30 ~170 kbar, 77 ~523 K)	1.6-5.1			Like A5	689
$InSbSn_{0.02-0.80}$ (Quenched)	4.0-4.4				539
$InSbSn_{0.05-0.80}$ (Heat treated, quenched)	3.8-4.6				539
$InSbSn_{0.05-0.90}$ (Heat treated, quenched)	3.8-5.1				539
In_xSn_{1-x} (Single Crystals)	T'_c (-0.10)				562
$In_{1-x}Sn_x$					609
$In_{0.04}Sn_{0.96}$		HF			666
InTe			1.5	Tet., a=6.06, c=6.55 II Phase	696
$In_{1-x}Te_x$ ($n=0.8-1.71x10^{22}$)	1.0-3.45			B1	622
InTe ($n=1.71 \times 10^{22}$)	3.45-3.20			B1, a=6.18	622
$In_{0.82}Te$ ($n=0.83x10^{22}$)	1.02-1.06			B1, a=6.052	506,515
$In_{0.83}Te$ ($n=0.88x10^{22}$)	1.09-1.15			B1, a=6.055	506,515

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$In_{0.87}Te$ ($n=1.09x10^{22}$)	1.40-1.55			B1, a=6.081	506,515
$In_{0.91}Te$ ($n=1.28x10^{22}$)	1.87-2.04			B1, a=6.110	506,515
$In_{0.95}Te$ ($n=1.47x10^{22}$)	2.5-2.7			B1, a=6.14	506,515
InTe ($n=1.71x10^{22}$)	3.2-3.45			B1, a=6.16	506
InTe ($n=1.71x10^{22}$)	3.20-3.45			B1, a=6.177	470,515
InTe			1.6	InTe (I)	507
$In_{1.015}Te$ ($n=1.67x10^{22}$)	3.25-3.51			B1, a=6.178	515
$In_{1.05}Te$ ($n=1.58x10^{22}$)	2.95-3.41			B1, a=6.181	515
$In_{1.10}Te$ ($n=1.45x10^{22}$)	2.55-2.80			B1, a=6.182	515
$In_{1.15}Te$ ($n=1.34x10^{22}$)	2.35-2.60			B1, a=6.179	515
In_2Te_3			1.0		515
In_3Te_4 ($n=0.47x10^{22}$)	1.15-1.25			Rhomb., a=13.75, α=17.80	470,515,622
$In_{1.000}Te_{1.002}$II	3.5-3.7	HF		B1, a=6.154	507
$In_{0.62}Tl_{0.38}$	2.760	HF			664
$In_{0.78-0.69}Tl_{0.22-0.31}$	3.18-3.32			Tet.	692
$In_{0.69-0.62}Tl_{0.31-0.38}$	2.98-3.3			Cubic, f.c.	692
$In_{0-0.1126}Zr_{1-0.8874}$				A3	572#
Ir					572#
Ir▽			0.3		503▽,615▽
Ir_2La	0.48++			C15, a=7.686	469
Ir_3La	2.46, 2.32			$D10_2$	469,658

++ Powder transition

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Ir_3La_7	2.24			$D10_2$, a=10.235, c=6.473	469
Ir_5La	2.13				469
IrLu			0.32	B2, a=3.330	469
$IrLu_2$	0.84 (portion only)				469
$IrLu_3$			0.32		469
Ir_2Lu	2.47			C15, a=7.443	469
Ir_3Lu_7	2.89			C15, a=7.434	469
Ir_3Lu	0.78 (portion only)				469
$Ir_{0.25}Mo_{0.75}$				A15	572#
$Ir_{0.37}Nb_{0.63}$	2.32			$D8_b$	557#
$Ir_{0.37}Nb_{0.63}$				$D8_b$	572#
$IrNb_3$			1.7	A15, a=5.1356	492
$Ir_{0.02}Nb_3Rh_{0.98}$	2.43			A15, a=5.131	492
$Ir_{0.05}Nb_3Rh_{0.95}$	2.38			A15, a=5.132	492
$Ir_{0.10}Nb_3Rh_{0.90}$			1.7	A15, a=5.1329	492
$Ir_{0.30}Nb_3Rh_{0.70}$			1.7	A15, a=5.1340	492
$Ir_{0.50}Nb_3Rh_{0.50}$			1.7	A15, a=5.1349	492
$Ir_{0.70}Nb_3Rh_{0.30}$			1.7	A15, a=5.1349	492
$Ir_{0.90}Nb_3Rh_{0.10}$			1.7	A15, a=5.1345	492
IrOs					574,699
$Ir_{0.65-1}Os_{0.35-0}$				A1	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Ir_{0.7}Os_{0.3}Rh$					574
$Ir_{0.5}OsRh_{0.5}$					574
IrOsRh					699
IrP			0.35		491
Ir_2P			0.35		491
IrPd					574,699
IrPt					574,699
$Ir_{0.10-0}Pt_{0.90-1}$				A1	572#
IrReRh					699
$Ir_{0.8}Re_{0.2}Rh$					574
IrRh					574,699
IrRu					574,699
IrS			0.32		552
$IrS_{2.6}$			0.32		552
IrSb			0.35		491
Ir_2Sb			0.35		491
IrSc			0.32	B2, a=3.205	469
$Ir_{0.32}Sc_{0.68}$			0.32		469
$IrSc_3$			0.32		469
Ir_2Sc	2.07			C15, a=7.347	469
$Ir_{2.5}Sc$	2.46			C15, a=7.343	469
$Ir_{2.5}Sc$	0.42^+ (portion only)				469

+ Beginning of transition of powdered sample

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Ir_{2.5}Sc$	2.13++				469
Ir_3Sc			0.32		469
$IrSe_2$			0.32	Ortho-rhombic, a=20.94, b=5.93, c=3.74	552
$IrSe_{2.9}$			0.32		552
$IrSn_2$	0.65-0.78			C1, a=6.34	486
$Ir_{0.5}Te_{0.5}$	3.0+++				552
$IrTe_2$			0.32	C6, a=3.930, c=5.393	552
$IrTe_3$	1.18			C2, a=6.413	552
IrTh	0.37+			B_f, a=3.894, b=11.13, c=4.266	469
Ir_3Th	4.71				469
Ir_5Th	3.93			$D2_d$, a=5.315, c=4.288	469
$Ir_{0.69-0.67}Th_{0.31-0.33}$				Cubic	572#
IrV_3			0.35	A15	498
$Ir_{0.33}V_{2.67}$	1.39			A15	498
$Ir_{0.28}W_{0.72}$	4.49			$D8_b$	557#
$Ir_{0.28}W_{0.72}$				$D8_b$	572#
IrY_4			0.32		469
$Ir_{0.01}Y_{0.99}$	0.35 (portion only)				469
$Ir_{0.0175}Y_{0.9825}$	0.49+++ (portion only)				469

\+ Beginning of transition of powdered sample

++ Powder transition

+++ Beginning of transition

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Ir_{0.65}Y_{0.35}$	1.38			C15, a=7.525	469
$Ir_{0.69}Y_{0.31}$	1.98			C15, a=7.501	469
$Ir_{0.69}Y_{0.31}$	1.44^{++}			C15, a=7.501	469
$Ir_{0.70}Y_{0.30}$	2.16^{++}			C15, a=7.501-7.512	469
Ir_2Y	1.09			C15, a=7.518	469
Ir_2Y	2.18, 0.88			C15, a=7.500-7.520	469
Ir_2Y_3	1.61				469
$Ir_{3\text{ or }4}Y$	3.50				469
K			0.011		494,618
$K_{0.27-0.31}O_3W$	0.50			Hex., a=7.4, c=7.6	500
$K_{0.40-0.57}O_3W$	1.5			Tet., a=12.3, c=3.8	500
β-La	6.06			A1, a=5.29 (95% A1)	536
La$^{\nabla}$ (<1000A)			1.2		607$^{\nabla}$
La$^{\nabla}$ (1000-18,000A)	5.00-6.74				607$^{\nabla}$,572#
La	4.9				676#
$LaMg_2$	1.05			C15	658
LaMg			0.33		658
$LaN_{0.98}$			1.38	B1, a=4.44	558,559
LaN	1.35	HF			668
LaP			1.68	B1, a=6.013	558
$LaPd_3$			0.32	$L1_2$, a=4.233	469

++ Powder transition

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$La_{1-x}Pr_x$	Range				608
$LaPt_2$	0.46			C15, a=7.776	469
$La_{0.28}Pt_{0.72}$	0.54			C15, a=7.722	469
$LaPt_5$			0.32	$D2_d$, a=5.386, c=4.376	469
$LaRh_2$			0.32	C15, a=7.646	469
$LaRh_3$	2.60				469
$LaRh_5$	1.62				469
La_7Rh_3	2.58			$D10_2$, a=10.145, c=6.434	469
$La_{0.001-0.01}Rh_{0.999-0.99}$	1.6				563
La_7Rh_3	2.58			$D10_2$	658
LaS			1.25		617
La_3S_4	6.5	HF		Cubic, a=8.73, Th_3P_4 type	617
La_2S_3			1.25	Cubic, b.c. Ce_2S_3 type, a=8.723	558,617
La_3S_4 + additional compositions	6.5	HF		$D7_3$, a=8.73	534
LaSe			1.25		534,617
La_2Se_3			1.25		534,617
La_3Se_4 + additional compositions	8.6	HF		$D7_3$, a=9.05	534
La_3Se_4	8.6	HF		Cubic, a=9.05, Th_3P_4 type	617
$La_{0.333}Si_{0.667}$				Tet., b.c.	572#
$LaSi_2$	2.3				676#
$La_{0.15}Y_{0.85}$				A3	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$La_{0.35}Y_{0.65}$				A3	572#
$La_{0.48}Y_{0.52}$				Hex., Sm type	572#
$La_{0.60}Y_{0.40}$				Hex., La type	572#
$La_{0.75}Y_{0.25}$				Hex., La type	572#
$La_{0.85}Y_{0.15}$				Hex., La type	572#
$La_{1-x}Yb_x$	Range				608
LaZn	1.04			B2	658
Lu			0.03		660
LuRh			0.32	B2, a=3.334	469
$LuRh_2$			0.32	C15, a=7.404	469
$Lu_{0.275}Rh_{0.725}$	1.27			C15, a=7.355	469
$LuRh_5$	0.49				469
Lu_2Rh			0.32		469
Lu_3Rh			0.32		469
$Mg_{24}Y_5$			1.30	A12	557
MgY			0.33	B2	658
Mn (α)				A12	572#
Mn (β)				A13	572#
Mn (γ)				γ- form	572#
Mn (δ)				δ - form	572#
$Mn_{0.63}Mo_{0.37}$			1.30	$D8_b$	557
$Mn_{0.73}Mo_{0.27}$			1.30	$D8_b$	557

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Mn_{0.75}Ni_{0.25}$				A1	572#
$Mn_{0.60}Ni_{0.40}$				A1	572#
$Mn_{0.40}Ni_{0.60}$				A1	572#
$Mn_{0.30}Ni_{0.70}$				A1	572#
$Mn_{0.25}Ni_{0.75}$				Cubic	572#
$Mn_{0.25}Ni_{0.75}$				A1	572#
$Mn_{0.25}Ni_{0.75}$				A1	572#
$Mn_{0.20}Ni_{0.80}$				A1	572#
MnP			0.01	B31	601
$Mn_{0.005}Pt_{0.995}$				A1	572#
Mn_xSn_{1-x}	T_c' (≈0)				598
$Mn_{.0017-.017}Ti_{.9983-.983}$				A3	572#
$Mn_{.020}Ti_{.980}$				A3	572#
$Mn_{0.14}Ti_{0.86}$				A2	572#
$Mn_{0.0028}Ti_{0.9972}$ (quenched)	2.6R				523
$Mn_{0.0028-0.04}Ti_{0.9972-0.96}$ (quenched from 1000°C)			1.1		523
$Mn_{0.0028-0.04}Ti_{0.9972-0.96}$ (quenched from 690°C)	~3.0R			pure α + pure β	523
$Mn_{0.01}Ti_{0.99}$	1.2				490
$Mn_{0.01-0.14}Ti_{0.99-0.86}$ (quenched from 1000°C)	<1.4				523

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Mn_{0.02}Ti_{0.98}$	1.7				477
$Mn_{0.02}Ti_{0.98}$ (quenched)	1.9				523
$Mn_{0-0.0065}Ti_y$			0.06		490
Mn_xTi_y	0.2-0.4				490
Mn_xTi_y					522
$Mn_{0.002}Ti_{0.499}Zr_{0.499}$				A3	572#
$Mn_{(0\text{-}14\ ppm\ at.)}Zn$	T_c' (-0.46)				598
Mo (Isotopes)	0.886-0.912				566
Mo	0.915-0.918	95			543#,572#
Mo^{∇}	~5			A2 + extra lines	503^{∇},615^{∇}
$Mo_{0-1.00}Nb_{1.00-0}$				A2	572#
$Mo_{0-1.00}Nb_{1.00-0}$				A2	572#
$Mo_{0.15}Nb_{0.85}$				A2	572#
$Mo_{0.62}Os_{0.38}$	5.60			$D8_b$	557#,572#
Mo_3P	5.31			DO_e	601
MoP			1.01	B_h	601
$Mo_{0.60}Pd_{0.40}$					572#
$Mo_{0.50}Pd_{0.50}$					572#
$Mo_{0.40}Pd_{0.60}$					572#
$Mo_{0.57}Re_{0.43}$	14.0				592

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Mo_{0.42}Re_{0.58}$	6.35			$D8_b$	557#
$Mo_{0.23}Re_{0.77}$	9.25			A12	557#
$Mo_{0.52}Re_{0.48}$ (Cold worked)	11.1	HF			555
$Mo_{0.52}Re_{0.48}$ (Cold worked)	11.1	HF			555
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C, slow cooled)	11.1	HF			555
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C + slow cooled)	11.1	HF			555
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C + quenched)	11.1	HF			555
$Mo_{0.52}Re_{0.48}$ (Annealed 2000°C + slow cooled)	11.1	HF			555
$Mo_{0.60 \pm 0.05}Re_{0.395}$ (Cold worked)	10.6	HF			555
$Mo_{0.60 \pm 0.05}Re_{0.395}$ (Annealed 1 hr. 1100°C, slow cooled)	10.6	HF			555
$Mo_{0.60 \pm 0.05}Re_{0.395}$ (Annealed 19 hr. 1100°C, slow cooled)	10.6	HF			555
$Mo_{1-0.50}Re_{0-0.50}$				A2	572#
$Mo_{0.42}Re_{0.58}$				$D8_b$	572#
$Mo_{0.23}Re_{0.77}$				A12	572#
$Mo_{0.61}Ru_{0.39}$	7.18			$D8_b$	557#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Mo_{0.95}Ru_{0.05}$				A2	572#
$Mo_{0.70}Ru_{0.30}$				A2	572#
$Mo_{0.61}Ru_{0.39}$				$D8_b$	572#
$Mo_{0.333}S_{0.667}$					572#
Mo_3Si	1.3				474
Mo_3Sn			1.0	Cubic, a=3.165	509
Mo_3Sn (high pressure and temperature)			0.35	A15, a=5.094	509
$Mo_{0.50}Tc_{0.50}$				A2	572#
$Mo_{0.16}Ti_{0.84}$	4.18	<985, HF			584
$Mo_{0.913}Ti_{0.087}$	2.95	HF			600
$Mo_{0.16}Ti_{0.84}$	4.18	HF			616
$Mo_{0.16}Ti_{0.84}$	4.246	HF			565#
$Mo_{0.086}Ti_{0.914}$				A2	572#
$Mo_{0.075}Ti_{0.925}$				A2	572#
$Mo_{0.065}Ti_{0.935}$				A2	572#
$Mo_{0.063}Ti_{0.937}$				A2	572#
$Mo_{0.025}Ti_{0.975}$	1.8			A3	477#,572#
$Mo_{0.04}Ti_{0.96}$	2.0			b.c.c., ω + h.c.p.	477
Mo_xTi_y					522
$Mo_{0.296}U_{0.704}$				A2	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Mo_{0.253}U_{0.747}$				A2	572#
$Mo_{0.216}U_{0.784}$				A2	572#
$Mo_{0.118}U_{0.882}$				A2	572#
$Mo_{0.137}U_{0.863}$				A2	572#
Mo_2Zr	4.75-4.27			C15	640
$N_{0.456}Nb_{0.544}$					572#
$N_{0.476}Nb_{0.524}$					572#
NNb (Whiskers)	10-14.5	HF			582
N_xNb_{1-x}	Range				588
NNb (Diffusion wires)	16.10	HF			553
$N_{0.988}Nb$	14.9			B1; a=4.39	559,558
$N_{0.952}Nb$	15.3			B1	559,558
$N_{0.920}Nb$	14.7			B1	559,558
$N_{0.900}Nb$	15.2			B1, a=4.38	559,558
$N_{0.868}Nb$	14.8			B1	559,558
$N_{0.824}Nb$	14.4			B1	559,558
$N_{0.795}Nb$	12.9			Cubic & Tet.	559,558
$N_{0.752}Nb$	12.6			Cubic & Tet.	559,558
$N_{0.700}Nb$	11.3			Cubic & Tet.	559,558
NNb_x				B1	483

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
NNb^{∇} (sputtered)	6-9			B1	505∇
NNb_xO_y	13.5-17.0	HF		B1	483
$N_{100-42\ w/o}Nb_{0-58\ w/o}Ti$	15-16.8				588
$N_{100-75\ w/o}Nb_{0-25\ w/o}Zr$	12.5-16.35				588
$NNb_{1-0.75}Zr_{0-0.25}$ (wires)		HF			553
NNb_xZr_{1-x}	9.8-13.8	HF		B1, a=4.38-4.56	652
$N_{0.93}Nb_{0.85}Zr_{0.15}$	13.8	HF		B1, a=4.42	652
$N_xNb_yZr_z$		HF			517
$N_{0.98}Pr$			1.38	B1, a=5.16	559,558
$N_{0.97}Sc$			1.38	B1, a=4.44	559,558
NTa	12-14 (Extrapolated)			B1	691
NTa^{∇} (sputtered)	4.84			B1	505∇
NTa_2^{∇} (sputtered)			1.2	Hex.	505∇
$N_{0.987}Ti$	5.8			B1, a=4.20	559,558
$N_{0.99-0.60}Ti$	<1.17-4.35			B1, a=4.243-4.238	694
$N_{0.8-0.6}Ti$			1.17		694
$N_{0.99}Ti$	4.35				694
$N_{0.84}Ti$	1.2				694
$N_{0.898}V$	5.9			B1, a=4.13	559,558
$N_{0.99-0.785}V$	2-8			B1, a=4.132-4.084	694

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$N_{0.99}V$	7.9				694
$N_{0.9}V$	4.8				694
$N_{0.82}V$	2.9				694
$N_{0.97}W$			1.38	B1	559,558
NY			1.4	B1, a=4.895	694
$N_{0.984}Zr$	9.5			B1	559,558
$N_{0.971}Zr$	8.8			B1	559,558
$N_{0.965}Zr$	6.3			B1	559,558
$N_{0.958}Zr$	5.6			B1	559,558
$N_{0.932}Zr$	3.0			B1	559,558
$N_{0.906}Zr$			1.38	B1	559,558
NZr	9.8			B1, a=4.56	652
$Na_{0.3}O_3W$			0.3	Perovskite	575
$Na_{0.4}O_3W$			0.3	Perovskite	575
$Na_{0.8}O_3W$			0.3	Perovskite	575
$Na_{0.28-0.35}O_3W$	0.56			Tet., a=12.1, c=3.75	625
$Na_{0.3}O_3W$			0.3	E21	674
$Na_{0.4}O_3W$			0.3	E21	674
$Na_{0.8}O_3W$			0.3	E21	674
$Na_{0.2}O_3W$	0.55			Tet., a=12.1,c=3.7	500

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Na_{0.28-0.35}O_3W$	0.56			Tet., a=12.1, c=3.75	472
$Na_{0.10}O_3W$			0.040	Tet. II, a=5.2,c=3.9	500
Na_xO_3W			0.011	Perovskite, a=3.8	500
Nb		HF			538,679#
Nb	9.22 + 9.25*	HF			544,505, 525#, 531#
Nb^{∇}		HF			518^{∇}
Nb^{∇} (2000-20000Å)	6.5-9.4				529^{∇}
Nb^{∇} (420-6000Å)	6.70-9.11				505^{∇}
Nb^{∇}	<bulk				503^{∇}
Nb	9.26				620#,572#
NbO	1.25				481
Nb_3Os			1.7	A15, a=5.1359	492
$Nb_{0.60}Os_{0.40}$	1.89			$D8_b$	557#,572#
$Nb_3Os_{0.02}Rh_{0.98}$	2.42			A15, a=5.134	492
$Nb_3Os_{0.05}Rh_{0.95}$	2.39			A15, a=5.132	492
$Nb_3Os_{0.10}Rh_{0.90}$	2.30			A15, a=5.1302	492
$Nb_3Os_{0.30}Rh_{0.70}$			1.7	A15, a=5.1315	492
$Nb_3Os_{0.50}Rh_{0.50}$			1.7	A15, a=5.1334	492
$Nb_3Os_{0.70}Rh_{0.30}$			1.7	A15, a=5.1345	492
$Nb_3Os_{0.90}Rh_{0.10}$			1.7	A15, a=5.1354	492

* Residual Resistivity Ratio = ~500

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Nb_{0.60}Pd_{4.40}$	1.60			$D8_f$ & Cubic	557#
$Nb_{0.60}Pd_{0.40}$				$D8_b$	572#
$Nb_3Pd_{0.02}Rh_{0.98}$	2.50			A15, a=5.133	492
$Nb_3Pd_{0.05}Rh_{0.95}$	2.49			A15, a=5.134	492
$Nb_3Pd_{0.10}Rh_{0.90}$	2.55			A15, a=5.1345	492
Nb_3Pt	10.9			A15, a=5.1547	492
$Nb_{0.62}Pt_{0.38}$	4.21			$D8_b$	557#,572#
$Nb_3Pt_{0.02}Rh_{0.98}$	2.52			A15, a=5.132	492
$Nb_3Pt_{0.05}Rh_{0.95}$	2.53			A15, a=5.133	492
$Nb_3Pt_{0.10}Rh_{0.90}$	2.8			A15, a=5.1336	492
$Nb_3Pt_{0.30}Rh_{0.70}$	5.1			A15, a=5.1395	492
$Nb_3Pt_{0.50}Rh_{0.50}$	6.25			A15, a=5.1450	492
$Nb_3Pt_{0.70}Rh_{0.30}$	7.4			A15, a=5.1487	492
$Nb_3Pt_{0.90}Rh_{0.10}$	7.9			A15, a=5.1534	492
$Nb_3Pt_{0.95}Rh_{0.05}$	8.9			A15, a=5.160	492
$Nb_3Pt_{0.98}Rh_{0.02}$	9.6			A15, a=5.157	492
$Nb_{0.38}Re_{0.62}$	2.43			A12	557#
$Nb_{0.29}Re_{0.71}$	5.60			A12	557#
$Nb_{0.20}Re_{0.80}$	8.83			A12	557#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Nb_{0.38}Re_{0.62}$				A12	572#
$Nb_{0.29}Re_{0.71}$				A12	572#
$Nb_{0.20}Re_{0.80}$				A12	572#
Nb_3Rh	2.64			A15, a=5.1317	492
$Nb_{0.60}Rh_{0.40}$	4.21			$D8_b$ + ?	557#
$Nb_{0.60}Rh_{0.40}$				$D8_b$	572#
$Nb_3Rh_{0.90}Ru_{0.10}$	2.44			A15, a=5.1346	492
$Nb_3Rh_{0.95}Ru_{0.05}$	2.42			A15, a=5.135	492
$Nb_3Rh_{0.98}Ru_{0.02}$	2.42			A15, a=5.132	492
$Nb_{0.90-0.62}Ru_{0.10-0.38}$				A2	572#
$Nb_{0.33}S_{0.67}$					572#
NbS_2	6.1-6.3			Hex., 2 layer $NbSe_2$ type	675
NbS_2	5.0-5.5			Hex., 3 layer type	675
$NbSe_2$	5.15-5.62			Hex., NbS_2 type, a=3.44, c=12.54	636
$NbSe_{1.9-2.25}$	>4.2				636
$NbSe_2$	7.0			Hex.	647
$Nb_{1.05}Se_2$	2.2				647
$Nb_{1-1.05}Se_2$	2.2-7.0			Hex., NbS_2 type, a=3.45, c=12.54	647

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Nb_{\sim 0.96-1.06}Se_2$	5.9-6.3			Hex., a=3.44, c=25.24	647
$Nb_{1.05}Se_2$	2.2	HF			654
$Nb_{0.8}Sn_{0.2}$ (950°C @ 72 hrs., 1550°C @ 3 hrs.)	7.5			A15, a=5.284	593
$Nb_{0.8}Sn_{0.2}$ (1550°C - 4 hrs.)	5.5			A15, a=5.283	593
$Nb_{0.85}Sn_{0.15}$ (950°C - 72 hrs., 1550°C - 3 hrs.)	4.8			A15, a=5.282	593
Nb_3Sn (Various heat treatments)	6.2-17.5			A15, a=5.282-5.289	593
Nb_3Sn	18.0			A15, a=5.289	473,572#
Nb_3Sn (quenched)	4-16.7			A15	498
Nb_3Sn (sintered)		HF			485,564#
$Nb_{0.5-0.83}Sn_{0.5-0.17}$ (as cast)	17.6M				479
$Nb_{0.5-0.83}Sn_{0.5-0.17}$ (annealed)	17.95M				479
$NbSnTa_2$	10.8			A15, a=5.280	473
Nb_2SnTa	16.4			A15, a=5.289	473
$Nb_{2.5}SnTa_{0.5}$	17.6			A15	473
$Nb_{2.75}SnTa_{0.25}$	17.8			A15	473
NbSnTaV	6.2			A15, a=5.175	473

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Nb_2SnTa_{0.5}V_{0.5}$	12.2			A15	473
$NbSnV_2$	5.5			A15, a=5.115	473
Nb_2SnV	9.8			A15, a=5.171	473
$Nb_{2.5}SnV_{0.5}$	14.2			A15	473
$Nb_{0.10}Ta_{0.90}$		HF			478
$Nb_{0.5}Ta_{0.5}$	6.25				544
$NbTe_2$			1.0	Like $CdCl_2$	675
$Nb_{0.6}Ti_{0.4}$	9.8				592
$Nb_{32\ w/o}Ti_{68\ w/o}$		HF			682
$Nb_{0.025}Ti_{0.975}$	1.5			Hex.	499
$Nb_{0.04}Ti_{0.96}$				A3	477#, 554# 572#
Nb_xTi_y					522
$Nb_{0.259}U_{0.741}$				A2	572#
$Nb_{0.88}V_{0.12}$	5.7			A2	572#
$Nb_{0.75}Zr_{0.25}$		HF			597
$Nb_{0.66}Zr_{0.33}$		HF			597
$Nb_{0.40}Zr_{0.60}$				A2	572#
$Nb_{0.50}Zr_{0.50}$				A2	572#
$Nb_{0.75}Zr_{0.25}$				A2	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Nb_{0.75}Zr_{0.25}$				A2	572#
$Nb_{0.90}Zr_{0.10}$				A2	572#
$Nb_{0.15-0.90}Zr_{0.85-0.10}$		HF			686
$Nb_{0.75}Zr_{0.25}$		HF			690
Nd_2S_3			1.68	Cubic, b.c. Ce_2S_3 type, a=8.699	558
Ni			0.35		270,572#
Ni_3P			1.01	DO_e	601
Ni_2P			1.01	C22	601
$Ni_{0.80-0}Pd_{0.20-1}$				A1	572#
$Ni_{0.005}Pt_{0.995}$				A1	572#
$Ni_{0.96-0.92}Sb_{0.04-0.08}$				A1	572#
$Ni_{0.96-0.92}Si_{0.04-0.08}$				A1	572#
$Ni_{0-0.08}V_{1-0.92}$				A2	572#
$Ni_{0.60}V_{0.40}$				A1	572#
$Ni_{0.65}V_{0.35}$				A1	572#
$Ni_{0.72}V_{0.28}$				A1	572#
$Ni_{0.82}V_{0.18}$				A1	572#
$Ni_{0.91}V_{0.09}$				A1	572#
$Ni_{0.91-0.74}Zn_{0.09-0.26}$				A1	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Ni_{(0-\sim400\ ppm\ at.)}Zn$	T'_c (-~0.1)				598
Np			0.41		495
$O_3Rb_{0.27-0.29}W$	1.98			Hex., a=7.4, c=7.6	500
O_3SrTi ($n = 10^{20}$)	0.43	HF			594#
O_3SrTi ($n = 10^{20}$)	0.33	HF			594#
O_3SrTi ($n = 3.3x10^{19}$)	~0.28				610
O_3SrTi ($n = 2.5x10^{20}$)	~0.25				610
O_3SrTi ($n = 2.6x10^{19}$)		0.4			610
O_3SrTi ($n=1.7 - 12.0x10^{19}$)	0.12-0.37	HF			611
O_3SrTi ($n=10^{18}-10^{21}$)	0.05-0.47				621
O_3SrTi ($n = \sim10^{20}$)	0.47				621
$O_3Sr_{0.08}W$	2.0-4.0			Hex., a=7.414,c=7.569	644
OTi	0.58				581
$O_3Tl_{0.30}W$	2.00-2.14			Hex., a=7.344,c=7.482	644
O_3W			0.3		575
O_2W			0.3		575
OW_3 ∇			0.012		615∇
OW_3 ∇	3.35, 1.1			A15	615∇
O_2W			0.3		674

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
O_3W			0.3		674
Os (Pressure to 30 katm)	0.65				569
Os					572#
$Os_{0.30}Re_{0.70}$				A3	572#
$Os_{0.70}Re_{0.30}$				A3	572#
$Os_{0.33-1}Ru_{0.67-1}$				A3	572#
$Os_{0.67}Th_{0.33}$				Cubic	572#
$PPd_{3.0-3.2}$	<0.35-0.7			DO_{11}	491
$PPd_{3.0}$				DO_{11}, a=5.18, b=6.00, c=7.46	491
P_2Pd				Monoclinic, a=6.20, b=5.857, c=5.874, β=111.80°	491
P_3Pd_7 (high temperature)	1.00			Rhombohedral, a=7.28, α = 110.12°	491
P_3Pd_7 (low temperature)	0.70			Complex	491
P_7Pt_{20}			0.35		491
PRh_2	1.3			C1, a=5.516	491
PRu			0.35		491
PRu_2			0.35		491
PV			1.01	B31	601
PW			1.01	B31	601

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
PW_3	2.26			DO_e, a=9.890,c=4.808	601
Pa	1.4			Tet., a=3.925,c=3.238	504
Pa	1.4			Tet., a=3.925,c=3.238	614
Pb		HF, Type I			586
Pb$^{\nabla}$ (With Hg, Sn, In, Tl, Al, Zn, Cd, Cu, Fe films)					598$^{\nabla}$
Pb$^{\nabla}$					602$^{\nabla}$
Pb	7.16	800			653
Pb		HF			666
Pb$^{\nabla}$		HF			672$^{\nabla}$
Pb	7.19				476#
$PbRh_2$			0.32		489
$PbSb_{1\ w/o}$(quenched)		HF			589
$PbSb_{1\ w/o}$(annealed)		HF			589
$PbSb_{2.8\ w/o}$(quenched)		HF			589
$PbSb_{2.8\ w/o}$(annealed)		HF			589
PbTe (+<0.1 w/o Pb)	5.3-5.34	HF			669
PbTe (+0.1 w/o Pb)	5.19				669
PbTe (+0.1 w/o Tl)	5.24-5.27				669
$PbTl_{2.9\ w/o}$		HF			586
$PbTl_{4.87\ w/o}$		HF			586
$PbTl_{10.1\ w/o}$		HF			586

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$PbTl_{19.9\ w/o}$		HF			586
$PbTl_{29.9\ w/o}$		HF			586
$PbTl_{1.06\ w/o}$		Type I			586
$PbTl_{0.27}$	6.43	756, HF			653#
$PbTl_{0.17}$	6.73	796, HF			653#
$PbTl_{0.12}$	6.88	849, HF			653#
$PbTl_{0.075}$	6.98	880, HF			653#
$PbTl_{0.04}$	7.06	864, HF			653#
$Pb_{1-0.26}Tl_{0-0.74}$	7.20-3.68	HF			649
$Pb_{1-0}Tl_{0-1}$	7.26-2.38				83
$Pb_{0.97}Tl_{0.03}$		HF			666
$Pb_{0.99}Tl_{0.01}$		HF			666
Pd					637,572#
$Pd_{0-1.00}Rh_{1.00-0}$				A1	572#
PdS			0.35		491
$Pd_{2.2}S$ (quenched)	1.63			Cubic, a=8.93	491
$Pd_{2.8}S$			0.35		491
Pd_4S			0.32	Tet., a=5.1147, c=5.5903	552
$PdSb_2$			0.35		491

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Pd_{0.63}Sb_{0.37}$ (quenched)			0.35		491
$PdSc_2$			0.32	$E9_3$, a=12.442	469
PdSe			0.32	B34, a=6.727, c=6.912	552
Pd_4Se	0.42			Tet., a=5.2324, c=5.6470	552
$Pd_{6\ or\ 7}Se$	0.66			Similar to Pd_4Te compound	552
$Pd_{17}Se_{15}$			0.32	Cubic, a=10.606	552
PdSn	0.41			B31, a=3.87, b=6.13, c=6.32	491
Pd_2Sn	0.41			C37, a=8.12, b=5.65, c=4.31	491
Pd_3Sn_2	0.47-0.64			$B8_2$, a=4.399, c=5.666	491
PdTe	3.85			$B8_1$, a=4.152, c=5.670	552#
$PdTe_{1.02}$	2.56			$B8_1$, a=4.144, c=5.661	552
$PdTe_{1.04}$	2.11			$B8_1$, a=4.143, c=5.659	552#
$PdTe_{1.06}$	2.11			$B8_1$, a=4.138, c=5.652	552
$PdTe_{1.08}$	1.88			$B8_1$, a=4.135, c=5.647	552
$PdTe_2$	1.69			C6, a=4.036, c=5.132	552
$PdTe_{2.1}$	1.89			C6, a=4.037, c=5.128	552
$PdTe_{2.3}$	1.85			C6, a=4.037, c=5.127	552
$Pd_{1.1}Te$	4.07			$B8_1$, a.4.152, c=5.671	552

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Pd_{0.71}Te_{0.29}$	0.40			X-ray evidence of Pd_3Te, $Pd_{2.5}Te$ and Pd_2Te	552
Pd_3Te	0.76			X-ray evidence of Pd_3Te, $Pd_{2.5}Te$ and Pd_2Te	552
Pd_4Te			0.32	Cubic, a=12.674	552
$Pd_{0.50}Te_{0.50}$				Hex.	572#
$Pd_{0.49}Te_{0.51}$				Hex.	572#
$Pd_{0.99}Th_{0.01}$				A1	572#
$Pd_{0.98}Th_{0.02}$				A1	572#
$Pd_{0.95}Th_{0.05}$				A1	572#
$Pd_{0.90}Th_{0.10}$				A1	572#
$PdTh_2$	0.85			C16, a=7.33, c=5.93	469
Pd_5Th			0.32		469
Pd_3Y			0.32	$L1_2$, a=4.076	469
Pr_2S_3			1.68	Cubic, b.c. Ce_2S_3 type, a=8.611	558
Pt					637
Pt	<0.001 (Extrapolation)				699,572#
Pt$^{\nabla}$			0.3		503$^{\nabla}$,615$^{\nabla}$
$Pt_{0.87}S_{0.13}$				B17-type + Pt	552

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
PtSc			0.32	B2, a=3.268	469
$PtSc_4$			0.32		469
Pt_3Sc			0.32	$L1_2$, a=3.958	469
$Pt_{0.87}Se_{0.13}$				Monoclinic $PtSe_{0.80}$ + Pt	552
PtSn	0.37			$B8_1$, a=4.11, c=5.44	486
$PtSn_2$			0.34	C1, a=6.42	486
PtTe	0.59			Ortho-rhombic, a=6.6144, b=5.6360, c=11.865	552
PtTh	0.44			B_f, a=3.900, b=11.09, c=4.454	469
Pt_3Th_7	0.98			$D10_2$, a=10.126, c=6.346	469
Pt_2Th			0.32		469
Pt_3Th			0.32		469
Pt_4Th			0.32		469
Pt_5Th	3.13				469
$Pt_{0.02}U_{0.98}$	0.87			ρ-phase	698
$Pt_{0.02}U_{0.98}$(9.5 kbar)			1.2		698
$Pt_{0.0175}U_{0.9825}$	0.85			ρ-phase	700
PtV_3	2.87-3.20				645
$PtV_{2.5}$	1.36			A15	498
PtV_3	2.83			A15	498

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$PtV_{3.5}$	1.26			A15	498
$Pt_{0.91}W_{0.09}$				A1	572#
$Pt_{0.42}Y_{0.58}$	0.76*, 0.33^{+++}				469
$Pt_{0.77}Y_{0.23}$	1.80 (portion only)				469
$Pt_{0.80}Y_{0.20}$	1.96 (portion only)				469
$Pt_{0.77-0.80}Y_{0.23-0.20}$	1.6-2.0 (portion only)				469
PtY			0.32		469
Pt_2Y_3	0.90				469
$Pt_{2.2}Y$	1.70			C15, a=7.576	469
Pt_3Y			0.32	$L1_2$, a=4.075	469
Pt_3Y_7	0.82			$D10_2$, a=9.864, c=6.299	469
Pt_5Y			0.32		469
Pu			0.50		495
Rb			0.011		494,618
Re^{∇}	1.9-~7				503^{∇},615^{∇}
Re					572#
Re	1.70				680

* Probably associated with Y_3Pt_2

+++ Beginning of transition

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Re_xTi_y					522
$Re_{0.76}V_{0.24}$	4.52			$D8_b$	557
$Re_{0.92}V_{0.08}$	6.8			A3	572#
$Re_{0.50}W_{0.50}$	5.12			$D8_b$	557#
$Re_{0-0.25}W_{1-0.75}$				A2	572#
$Re_{0.50}W_{0.50}$				$D8_b$	572#
$Re_{0.88}W_{0.12}$				A3	572#
Rh					637,572#
Rh^{∇}			0.3		615^{∇}
Rh	<0.001 (Extrapolation)				699
Rh^{∇}			0.3		503^{∇}
$RhSc_4$			0.32		469
$Rh_{0.24}Sc_{0.76}$	0.92 (portion only)				469
$Rh_{0.25}Sc_{0.75}$	0.88 (portion only)				469
$Rh_{0.32}Sc_{0.68}$			0.32		469
Rh_3Sc			0.32	$L1_2$, a=3.898	469
$Rh_{0.67}Te_{0.33}$	0.49				552
RhTh	0.36			B_f, a=3.866, b=11.24, c=4.22	469

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
Rh_2Th			0.32		469
Rh_3Th			0.32	$L1_2$	469
Rh_5Th	1.07				469
Rh_xTi_y					522
$Rh_{0.02}U_{0.98}$	0.96				698
Rh_3Y_7			0.32	$D10_2$	658
RhY			0.32	B2, a=3.410	469
RhY_2			0.32		469
RhY_3	0.65				469
Rh_2Y			0.32	C15, a=7.489	469
Rh_2Y_3	1.48				469
Rh_3Y	1.07			C15, a=7.424	469
Rh_3Y_7			0.32	$D10_2$, a=9.793, c=6.196	469
Rh_5Y	0.56				469
$Rh_{0-0.08}Zr_{1-0.92}$					572#
$RhZr_2$	10.8			C16, a=6.4937, c=5.6058	648
$Rh_{0.10-0.45}Zr_{0.90-0.55}$	~10.8			Two phase	648
RhZr			1.7		648
$Rh_{0.001-0.01}Zr$	2.1-4.3			α'-phase	648

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Rh_{0.02-0.04}Zr_{0.098-0.096}$	2.7-3.9			Hex., a=5.055, c=3.103, ω-phase	648
$Rh_{0.05-0.09}Zr_{0.95-0.91}$	5.7-6.3			Cubic, a=3.55, β-phase	648
$Rh_{0.005-0.07}Zr$ (Annealed)	7.8-10.4				648
$Rh_{0.001-0.003}Zr$ (Annealed)			1.7		648
$Rh_{0.005}Zr$ (Annealed)	5.8				648
Ru	0.48				569,572#
RuS_2			0.32	C2, a=5.609	552
RuSb			0.35		491
Ru_2Sb			0.35		491
$RuSe_2$			0.32	C2, a=5.934	552
$RuTe_2$			0.32	C2, a=6.391	552
$Ru_{0.67}Th_{0.33}$				Cubic	572#
Ru_xTi_y					522
$Ru_{0.45}V_{0.55}$	4.0			B2	572#
$Ru_{0.35}V_{0.65}$				B2	572#
$Ru_{0.25}V_{0.75}$				A2	572#
$Ru_{0.15}V_{0.85}$				A2	572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
S_3Sm_2	Paramagnetic			Cubic, b.c. Ce_2S_3 type, a=8.465	558
S_2Ta			1.0	Cd $(OH)_2$ type	675
Sb*	2.6-2.7	HF			520
SbSn	1.30-1.42, 1.42-2.37			B1 or distorted B1	470
SbSn	1.42-1.30, 2.37-1.42			B1, Two phase	622
$Sb_{0-0.004}Tl$	ΔT_c (-0.02 +0.015)				591
$Sb_{0.01-0.03}V_{0.99-0.97}$				A2	572#
$Sb_{0.01}V_{0.99}$	3.76			A2	514#
$Sb_{0.02}V_{0.98}$	3.29			A2	514#
$Sb_{0.03}V_{0.97}$	2.63			A2	514#
$Sb_{0-0.0185}Zr_{1-0.9815}$				A3	572#
Sc			0.03		660,572#
$Sc_{0.90}Ti_{0.10}$				A3	572#
$Sc_{0.80}Zr_{0.20}$					572#
$Sc_{0.50}Zr_{0.50}$					572#
$Sc_{0.25}Zr_{0.75}$					572#
$Sc_{0.10}Zr_{0.90}$					572#

* Formed at 120 kbar, pressure removed at 77°K

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Sc_{0.05}Zr_{0.95}$					572#
Se (~130 kbar)	6.75 + 6.95			Se II (unknown)	547
Se_2V			1.0	Like $Cd(OH)_2$	675
Si (~120-130 kbar)	7.1				540
Si_2Th	3.2			α- form	474
Si_2Th	2.4			β- form	474
Si_2Ti				C54, a=8.252, b=4.783, c=8.540	522
Si_3Ti_5				$D8_8$, a=7.475, c=5.162	522
SiV_3	17.1				474
$Si_{0.1-0.38}V_{0.99-0.62}$ (as cast)	16.7M				479
$Si_{0.1-0.38}V_{0.99-0.62}$ (annealed)	16.95M				479
SiV_3	16.38-16.95			A15	645,626
$Si_{0.25}V_{0.75}$				A15	572#
Si_2W_3	2.8				474
$Si_{0.655}Y_{0.345}$				Tet., b.c.	572#
$Si_{1.90}Y$					676#
Sn	3.722	305.50			579#,580#
Sn^{∇}	4.1				596^{∇},602^{∇}

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
Sn (quenched)	3.7			Tet., a=5.819, c=3.175, β-form	539
Sn^{∇}					516^{∇},532^{∇}
$SnTa_3$	6.4			A15, a=5.278	473
$Sn_{0.174-0.104}Ta_{0.826-0.896}$	6.5-<4.2			A15, a=5.279-5.278	581
$SnTa_3$ (high state of order)	8.35	HF		A15, a=5.280	581
$SnTa_3$ (low state of order)	6.2	HF		A15, a=5.277	581
$Sn_{0.26-0.10}Ta_{0.74-0.90}$	7.2-<4.2				581
$SnTaV_2$	2.8			A15, a=5.041	473
$SnTa_2V$	3.7			A15, a=5.174	473
Sn_xTe_y (n=10.5-20x10^{20})	0.07-0.22			B1	482
SnTe (n=10.5x10^{20} to n=20 x 10^{20})		HF			687
$Sn_{0.02-0.06}V_{0.98-0.94}$				A2	572#
$Sn_{0.02}V_{0.98}$	2.87			A2	514#
$Sn_{0.04}V_{0.96}$	1.86			A2	514#
$Sn_{0.057}V_{0.943}$	~1.6			A2	514#
SnV_3	3.8			A15, a=4.96	473
$Sn_{0-0.0906}Zr_{1-0.9094}$				A3	572#
Ta	4.48				505,572#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
Ta		HF			519
Ta					525
Ta^{∇} (1100-<5000Å)	3.25-4.30				505^{∇},529^{∇}
Ta^{∇}	<bulk				503^{∇}
$Ta_{0.5}Nb_{0.5}$		HF			627
$TaTe_2$			1.0	Like $CdCl_2$	675
$Ta_{0.025}Ti_{0.975}$	1.3			Hex.	499
$Ta_{0.05}Ti_{0.95}$	2.9			Hex.	499
Ta_xTi_y					522
$Ta_{0.05}V_{0.95}$	4.30			A2	587#,572#
$Ta_{0.25}V_{0.75}$	2.80			A2, a=3.111	572#
$Ta_{0.50}V_{0.50}$	2.35			A2, a=3.182	572#
$Ta_{0.75}V_{0.25}$	2.65			A2, a=3.254	572#
$Ta_{0.84-0}W_{0.16-1}$				A2	572#
Tc	7.92			A3, a=2.740, c=4.399	633
Tc	7.79				566
$Tc_{0.05}W_{0.95}$			~0.8	Cubic, a=3.1617	524
$Tc_{0.10}W_{0.90}$	1.25			Cubic, a=3.1553	524
$Tc_{0.20}W_{0.80}$	3.85			Cubic, a=3.147	524

Material	T_c (K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
$Tc_{0.30}W_{0.70}$	5.75	HF		Cubic, a=3.134	524
$Tc_{0.40}W_{0.60}$	7.18	HF		Cubic, a=3.126	524
$Tc_{0.50}W_{0.50}$	7.52	HF		α + trace σ, a=3.117	524
$Tc_{0.60}W_{0.40}$	7.88	HF		Trace α + σ, α-a=3.117, σ-a=9.520, c=5.003	524
Te (~56,000 atm.)	~3.3	HF			510,667
Te_2V			1.0	Like $Cd(OH)_2$	675
Th	1.4				504,614
Ti	0.14				523
Ti	0.42	56			490#
Ti					477#
Ti[∇]	1.3M				619[∇],572#, 554#
Ti		HF			688
TiU_2				C32, a=4.82, c=2.84	522
$Ti_{0.70}V_{0.30}$	6.14			Cubic	514#
$Ti_{0.96}V_{0.04}$	2.7				477#
$Ti_{0.975}V_{0.025}$	1.4			Hex.	499
TiV					522
$Ti_{0.775}V_{0.225}$	4.7	<1100, HF			584
$Ti_{0.75}V_{0.25}$	5.3	<1940, HF			584

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
$Ti_{0.615}V_{0.385}$	7.07	HF			600
$Ti_{0.516}V_{0.484}$	7.20	HF			600
$Ti_{0.415}V_{0.585}$	7.49	HF			600
$Ti_{0.775}V_{0.225}$(arc cast)		HF			616
$Ti_{0.75}V_{0.25}$ (arc cast)		HF			616
$Ti_{0.75}V_{0.25}$ (cold rolled)		HF			616
$Ti_{0.96}V_{0.04}$					554#
$Ti_{0.96}V_{0.04}$			A3		572#
$Ti_{0.80-0}V_{0.20-1.00}$			A2		572#
$Ti_{0.12}V_{0.88}$		HF			688
$Ti_{0.09}V_{0.91}$		HF			688
$Ti_{0.06}V_{0.94}$		HF			688
$Ti_{0.03}V_{0.97}$		HF			688
$Ti_{0.75}Zr_{0.25}$			A3		572#
$Ti_{0.25}Zr_{0.75}$			A3		572#
$Ti_{0.5}Zr_{0.5}$ (annealed)	1.23				477
$Ti_{0.5}Zr_{0.5}$ (quenched)	2.0				477
Tl	2.38	176.5			527#
Tl (35 kbar)	1.95		A3		641#

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure∞	Ref.
Tl (35 kbar)	1.45			A1	641#
Tl (25-48 kbar)	1.38-1.5			A1	641
U	0.21-0.25			A20	698
U	1.8				614,629#
U^{238}			0.17		701
U	1.8			Cubic	504,702, 703
V	5.31*	HF			548
V					525
V	5.37				572
V	4.59				572#
V		~1500, HF			548
$V_{0.26}Zr_{0.74}$	≈5.9	HF			678
W^{∇}	~3				615^{∇}
W					572#
W^{∇} (~2000A)	1.7-4.1	HF			671^{∇}
W	0.012	1.070			493, 612#
W	0.005-0.011	~1			526
W^{∇} (various films)	0.4-3.35		0.012	A15 (when superconductive)	503^{∇}

*Residual Resistivity Ratio = 27

Material	T_c(K)	H_o(oersteds)	T_n**	Crystal Structure ∞	Ref.
W^{∇} (~20-310Å)	4.1M				541^{∇}
Y					570,572# 676#
Y			0.03		660
YZn			0.33	B2	658
Zr (Isotope Study)	0.49				570
Zr	0.65			Hex., ω=Zr, a=5.03, c=3.12	549
Zr (annealed)	0.6			ω-Zr converted to α-Zr	549
Zr	0.70 + 0.73			α-Zr	549,572#
Zr (annealed)	~0.46				551

Table 3. High Magnetic Field Superconductive Materials and Some of Their Properties

(NOTE: All fields are quoted in kilo-oersteds. T_{obs} indicates temperature of measurement in degrees Kelvin. See text for discussion of field nomenclature. H_p is paramagnetic critical field).

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
Al_2CMo_3	9.8-10.2	0.091	156	(H_p=181)	1.2	571
$Ba_xO_3Sr_{1-x}Ti$	<0.1-0.55	0.0039M				611
Be[∇]	~6.5		≫11			550[∇]
Bi II, Bi III		(High field data given)				437
$Bi_{0.01}In_{0.99}$		(H_{c3}/H_c given vs.t)				666
$Bi_{0.02}In_{0.98}$		(H_{c3}/H_c given vs.t)				666
$Bi_{0.05-0.40}Pb_{0.95-0.60}$	7.35-8.4	0.122	~30		4.2	677
$Bi_{7.5\ w/o}Pb_{92.5\ w/o}$			2.32			685
CK (Excess K)	0.55		0.160	(H⊥C)		494
CK (Excess K)	0.55		0.730	(H‖C)		494
C_8K (Excess K)	0.55		0.160	(H⊥C)	0.32	494
	0.55		0.730	(H‖C)	0.32	494
C_8K (Stoichiometric)	0.39		0.025	(H⊥C)	0.32	494
	0.39		0.250	(H‖C)	0.32	494
$C_{0.44}Mo_{0.56}$	12.5-13.5	0.087	98.5	(H_p=238)	1.2	571
$C_xN_{1-x}Nb$	8.5-17.3	≤0.1	~110		4.2	582
CNb (Whiskers)	7.5-10.5					582
CNb	8-10	0.12	16.9	(H_p=130)	4.2	571
$CNb_{0.4}Ta_{0.6}$	10-13.6	0.19	14.1	(H_p=214)	1.2	571
$CRe_{0.01}W$	2.6					603
$CRe_{0.02}W$	3.7					603

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$CRe_{0.04}W$	4.3					603
$CRe_{0.06}W$	5.0					603
CTa	9-11.4	0.22	4.6 (H_p=185)		1.2	571
$Ca_xO_3Sr_{1-x}Ti$	<0.1-0.55	0.00215, 0.0038				611
$Cd_{0.02}Hg_{0.98}$		(H_{c3}/H_c given vs.t)				666
$Cr_{0.10}Ti_{0.30}V_{0.60}$	5.6	0.071	84.4		(0)	584
$Cr_{0.10}Ti_{0.30}V_{0.60}$	>4.2		>27		4.2	616
Ga (γ)	7.62		>3			642
Ga_xNb_{1-x}			>28		4.2	583
GaSb (Annealed)	4.24		2.64		3.5	695
$GaV_{2.1-3.5}$	6.3-14.45		230-300 (Linear Extrap.)			646
GaV_3			(Critical currents given)			564
GaV_3	14.17		96		4.2	684
GaV_3	14.17		208 (Extrap.)		(0)	684
$GaV_{4.5}$ (Wires)	9.15		94		4.2	684
$GaV_{4.5}$	9.15		121 (Extrap.)		(0)	684
$H_{>0.41}Nb$						631
$Hf_{0.75}Nb_{0.25}$ (Arc cast)	>4.2		>26		4.2	616
$Hf_{0.75}Nb_{0.25}$ (Cold rolled)	>4.2		>28		4.2	616
$In_{0.17}Pb_{0.83}$			2.8	5.5	4.2	627
$In_{0.98}Pb_{0.02}$	3.45	0.1		0.12	2.76	662

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$In_{0.96}Pb_{0.04}$	3.68	0.1	0.12	0.25	2.94	662
$In_{0.94}Pb_{0.06}$	3.90	0.095	0.18	0.35	3.12	662
$In_{0.913}Pb_{0.087}$	4.2	~0.17	0.55	2.65		665
$In_{0.30}Pb_{0.70}$			3.9		4.2	683
$In_{1-0.90}Pb_{0-0.1}$	0.7-1.1	($H_{c2,3}$ measured but quoted in ratio form)				480
$In_{0.04}Sn_{0.96}$			(H_{c3}/H_c given vs.t)			666
$In_{0.02}Sn_{0.98}$			(H_{c3}/H_c given vs.t)			666
$In_{1.000}Te_{1.002}$ II	3.5-3.7		1.2		(0)	507
$In_{0.62}Ti_{0.38}$	2.760					664
LaN	1.35	0.45			0.76	668
La_3S_4	6.5	≈0.15	>25			617
La_3S_4	6.5	0.15	>25		1.3	534
La_3Se_4	8.6	0.2	>25		1.25	534
La_3Se_4	8.6	≈0.2	>25			617
$Mo_{0.52}Re_{0.48}$ (Cold worked)	11.1		21.3	33	4.2	555
$Mo_{0.52}Re_{0.48}$ (Cold worked)	11.1		27.9	42.8	1.3	555
$Mo_{0.52}Re_{0.48}$ (Annealed & Slow cooled)	11.1		14.4	22.2	4.2	555
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C slow cooled)	11.1		17.8		1.3	555
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C,quenched)	11.1		14.6	23.8	4.2	555

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$Mo_{0.52}Re_{0.48}$ (Annealed 1250°C Quenched)	11.1		19.2		1.3	555
$Mo_{0.52}Re_{0.48}$ (Annealed 2000°C slow cooled)	11.1		14.8	27.3	4.2	555
$Mo_{0.52}Re_{0.48}$ (Annealed 2000°C slow cooled)	11.1		18.3	37.5	1.3	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Cold worked)	10.6		19	28.3	4.2	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Cold worked)	10.6		25.5	37.3	1.3	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Annealed 1 hr., 1100°C, slow cooled)	10.6		14.5	19.6	4.2	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Annealed 1 hr., 1100°C, slow cooled)	10.6		19	26.2	1.3	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Annealed 19 hr. 1100°C, slow cooled)	10.6		14.3		4.2	555
$Mo_{0.60 \pm .05}Re_{0.395}$ (Annealed 19 hr., 1100°C, slow cooled)	10.6		20.1		1.3	555
$Mo_{0.16}Ti_{0.84}$	4.18	0.028	98.7		(0)	584
$Mo_{0.913}Ti_{0.087}$	2.95	0.060	~15		4.2	600
$Mo_{0.16}Ti_{0.84}$	4.18		38		3.0	616
$Mo_{0.16}Ti_{0.84}$	4.246		36		3.0	565

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
NNb (Whiskers)	10-14.5					582
NNb (Wires)	16.10		132		4.2	553
NNb (Wires)	16.10		153 ± 3		(0)	553
NNb (Wires)	16.10		95		8	553
NNb (Wires)	16.10		53		12	553
NNb_xO_y	13.5-17.0	(H_{c2}-some samples <38 kgauss)				483
$N_xNb_yZr_z$			>130		4.2	517
$NNb_{1-0.75}Zr_{0-0.25}$ (Wires)			>100-120		4.2	553
NNb_xZr_{1-x}	9.8-13.8		4->130			652
$N_{0.93}Nb_{0.85}Zr_{0.15}$	13.8		>130			652
Nb	9.15		1.710		4.2	531, 679
	9.15		2.020		1.4	531
Nb (unstrained)	1.1-1.8		3.40	6.0-9.1	4.2	538
Nb (strained)	1.25-1.92		3.44	6.0-8.7	4.2	538
Nb (cold drawn wire)	2.48		4.10	≈10	4.2	538
Nb^{∇}			>25		4.2	518^{∇}
$Nb_{1.05}Se_2$	2.2					654
Nb_3Sn			(Critical currents given)			564
Nb_3Sn (sintered)		(Critical current density fields quoted)				485
$Nb_{0.10}Ta_{0.90}$		0.084	0.154		4.195	478
$Nb_{32\ w/o}Ti_{68\ w/o}$						682

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$Nb_{0.75}Zr_{0.25}$						597
$Nb_{0.66}Zr_{0.33}$						597
$Nb_{0.15-0.90}Zr_{0.85-0.10}$			44-123 (M at~$Nb_{0.4}$)		(0)	686
$Nb_{0.75}Zr_{0.25}$						690
O_3SrTi	0.43	0.0049	0.504	Calculated	(0)	594
O_3SrTi	0.43	0.0044	0.300		0.15	594
O_3SrTi	0.43	0.0036	0.300		0.25	594
O_3SrTi	0.43	0.0027	0.200		0.32	594
O_3SrTi	0.43	0.0013	0.070		0.39	594
O_3SrTi	0.33	0.00195	0.420	Calculated	(0)	594
O_3SrTi	0.33	0.00135	0.180		0.13	594
O_3SrTi	0.33	0.0015	0.220		0.14	594
O_3SrTi	0.33	0.0012	0.180		0.19	594
O_3SrTi	0.33	0.001	0.160		0.246	594
O_3SrTi	0.33	0.00075	0.100		0.273	594
O_3SrTi	0.33	0.00045	0.004		0.315	611
O_3SrTi	0.12-0.37	0.0027, 0.00275				611
Pb				0.591	4.2	586
Pb		(H_{c3}/H_c given vs.t)				666
Pb^{∇}						672^{∇}
$PbSb_1$ w/o (Quenched)			>1.5		4.2	589

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$PbSb_{1\ w/o}$ (Annealed)			>0.7		4.2	589
$PbSb_{2.8\ w/o}$ (Quenched)			>2.3		4.2	589
$PbSb_{2.8\ w/o}$ (Annealed)			>0.7		4.2	589
PbTe(+<0.1 w/o Pb)	5.3-5.34	~0.85			2.465	669
PbTe(+<0.1 w/o Pb)	5.3-5.34	~0.8			3.79	669
PbTe(+<0.1 w/o Pb)	5.3-5.34	~0.6			4.2	669
PbTe(+<0.1 w/o Pb)	5.3-5.34	~0.91			2.15	669
$PbTl_{1.06\ w/o}$				0.906	4.2	586
$PbTl_{2.9\ w/o}$				1.415	4.2	586
$PbTl_{4.87\ w/o}$			1.048	1.844	4.2	586
$PbTl_{10.1\ w/o}$			1.691	2.974	4.2	586
$PbTl_{19.9\ w/o}$			2.580	4.404	4.2	586
$PbTl_{29.9\ w/o}$			2.927	4.751	4.2	586
$PbTl_{0.27}$	6.43					653
$PbTl_{0.17}$	6.73		4.5 (Extrap.)			653
$PbTl_{0.12}$	6.88					653
$PbTl_{0.075}$	6.98					653
$PbTl_{0.04}$	7.06					653
$Pb_{1-0.26}Tl_{0-0.74}$	7.20-3.68		2-6.96		(0)	649
$Pb_{0.97}Tl_{0.03}$		(H_{c3}/H_c given vs.t)				666
$Pb_{0.99}Tl_{0.01}$		(H_{c3}/H_c given vs.t)				666

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
Sb*	2.6-2.7		4.4		1.55	520
$SnTa_3$(High order)	8.35		72.5		4.2	581
$SnTa_3$(Low order)	6.2		15.5			581
SnTe($n = 10.5 \times 10^{20}$)		0.00045			0.012	687
SnTe($n = 10.5 \times 10^{20}$)			0.0052		0.015	687
SnTe($n = 12.5 \times 10^{20}$)		0.00043	0.005		0.068	687
SnTe($n = 16.5 \times 10^{20}$)		0.00236			0.020	687
SnTe($n = 16.5 \times 10^{20}$)			0.052		0.063	687
SnTe($n = 20 \times 10^{20}$)		0.00168			0.043	687
SnTe($n = 20 \times 10^{20}$)			0.0775		0.079	687
Ta (99.95%)		0.090	0.375		3.72	519
		0.275	1.175		2.66	519
		0.325	1.425		2.27	519
		0.425	1.850		1.30	519
$Ta_{0.5}Nb_{0.5}$			3.55		4.2	627
$Tc_{0.30}W_{0.70}$	5.75		7.5		4.2	524
$Tc_{0.40}W_{0.60}$	7.18		19.0		4.2	524
$Tc_{0.50}W_{0.50}$	7.52		29.0		4.2	524
$Tc_{0.60}W_{0.40}$	7.88		43.5		4.2	524
Te	~3.3	0.25 ± 0.05			(0)	667
Ti				2.7	4.2	688
$Ti_{0.775}V_{0.225}$	4.7	0.024	172	(H_p = 86.5)	(0)	584
$Ti_{0.75}V_{0.25}$	5.3	0.029	199	(H_p = 97.5)	(0)	584
$Ti_{0.615}V_{0.385}$	7.07	0.050	~34		4.2	600

* Formed at 120 kbar, pressure removed at 77°K.

Material	T_c	H_{c1}	H_{c2}	H_{c3}	T_{obs}	Ref.
$Ti_{0.516}V_{0.484}$	7.20	0.062	~28		4.2	600
$Ti_{0.415}V_{0.585}$	7.49	0.078	~25		4.2	600
$Ti_{0.775}V_{0.225}$ (Arc cast)			≈22		4.2	616
$Ti_{0.75}V_{0.25}$ (Arc cast)			≈34		4.2	616
$Ti_{0.75}V_{0.25}$ (Cold rolled)			≈36		4.2	616
$Ti_{0.12}V_{0.88}$			17.3	28.1	4.2	688
$Ti_{0.09}V_{0.91}$			14.3	16.4	4.2	688
$Ti_{0.06}V_{0.94}$			8.2	12.7	4.2	688
$Ti_{0.03}V_{0.97}$			3.8	6.8	4.2	688
V		0.8	3.3		1.6	548
V	5.31	~0.80	~3.40		1.79	548
	5.31	~0.75	~3.15		2.	548
	5.31	~0.45	~2.20		3.	548
	5.31	~0.30	~1.20		4.	548
$V_{0.26}Zr_{0.74}$	≈5.9	0.165			3.5	678
$V_{0.26}Zr_{0.74}$	≈5.9	0.185			3.04	678
$V_{0.26}Zr_{0.74}$	≈5.9	0.227			1.78	678
$V_{0.26}Zr_{0.74}$	≈5.9	0.238			1.05	678
W^{∇}	1.7-4.1		>34		1	671^{∇}

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