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Properties of Selected Superconductive Materials

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Properties of Selected Superconductive Materials

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PROPERTIES OF SELECTED SUPERCONDUCTIVE MATERIALS

B. W. Roberts

This is a noncritical compilation of data on superconductive materials that have been extracted from the literature published up to early 1971. The properties concerned are composition, critical temperature, critical magnetic fields, crystallographic data, and the lowest temperature tested for materials specifically explored for superconductivity. The compilation also includes a bibliography, a list of general 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 Technical Note extends the data set on superconductive materials published in Vol. IV of Progress in Cryogenics, 1964,* pages 160-231, and is in addition to the addendum, National Bureau of Standards Technical Note 482 of May 1969. The new material includes a portion of that data readily available to the author to early 1971. However, the world activity in the study of superconductive materials has continued at a high rate such that more than 500 references are in hand and yet to be perused for available data as this Technical Note is assembled.

BACKGROUND

Sixty years of research on the phenomena of superconductivity has led to an impressive current world activity aimed at further understanding and exploitation. This effort has produced a technology 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. Huge linear accelerators are planned utilizing superconductive cavity walls. Large superconductive magnets have been constructed for hydrogen bubble chambers with coil diameters on the order of 3 meters and more. Plasma researchers have constructed floating superconductive

* 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.

coils. A direct current transformer has been produced utilizing a special arrangement of superconductive thin films for tunneling. A superconductive motor of 3250 hp. has been operated successfully as well as a 150 hp. superconductive generator. Doubtlessly, other applications will be stimulated as the information on superconductivity research and the data produced are disseminated to the scientific and industrial community.

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^{-25} ohm-m, while the lowest resistivity observed in metals is of the order of 10^{-15} ohm-m. 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, T_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 observed in 99.9999 purity 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).

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

** 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 uniformly because contractual commitments with the author predate establishment of a firm policy on their use by NBS. Other appropriate conversion factors will be found in Tables 1 and 2. We urge that specialists and other users of data in this field accustom themselves to SI units as rapidly as possible.

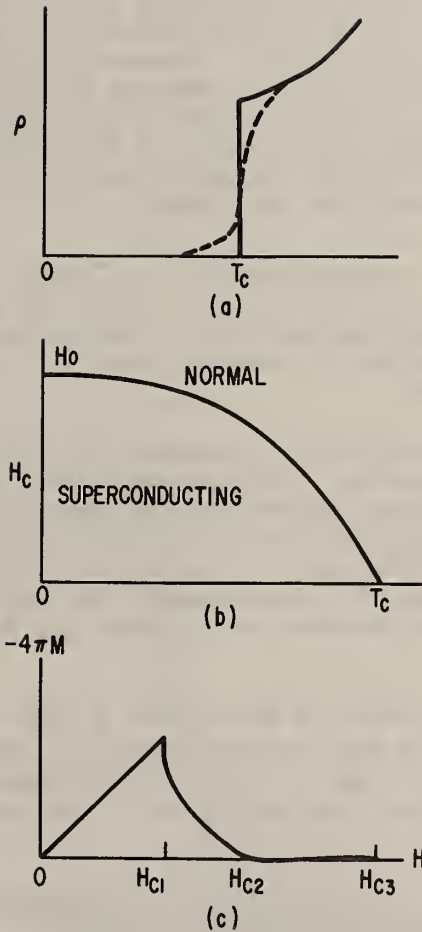


Figure 1. Physical properties of superconductors. (a) Resistivity versus temperature for a pure and perfect lattice (solid line). Impure and/or imperfect lattice (dashed line). (b) Magnetic field-temperature dependence for Type I or "soft" superconductors. (c) Schematic magnetization curve for "hard"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

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.

A more complete representation of the states present in a high field superconductor is given in Fig. 2 with the additional phenomenon called fluctuation superconductivity. The latter phenomenon is evidenced in several physical properties above the appropriate critical fields and temperatures.

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 with the possible exceptions of vanadium and niobium are Type I.

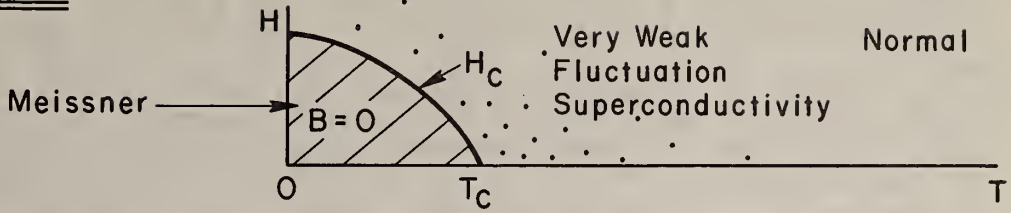
A further complication in describing a high field superconductor has been found in a few examples wherein a specific alloy may exhibit Type II behavior up to a temperature intermediate between T_c and absolute zero and then is a Type I superconductor from the intermediate temperature to T_c .

CRITERIA FOR THE EXISTENCE OF THE SUPERCONDUCTIVE STATE AND NEW DEVELOPMENTS

Substantial numbers of experimental and theoretical attempts are still being actively pursued to enhance the known criteria outlining the existence of the superconductive state in materials. Still, the most used criteria are Matthias' rules developed empirically but with qualitative theoretical support. The primary prediction of Matthias' rules is that alloys with average valence electron per atom values just below 4 (3.7-3.9), 5 (4.7), and 7 (6.7) will often have notable superconductive critical temperatures. The average valence electron per atom ratio is taken directly from the periodic table and the prime example is shown in Fig. 3. T_c data for most of the known alloys with the β -W (or CrO_3 or Al5) structures

PHASE DIAGRAM

Type I:



Type II:

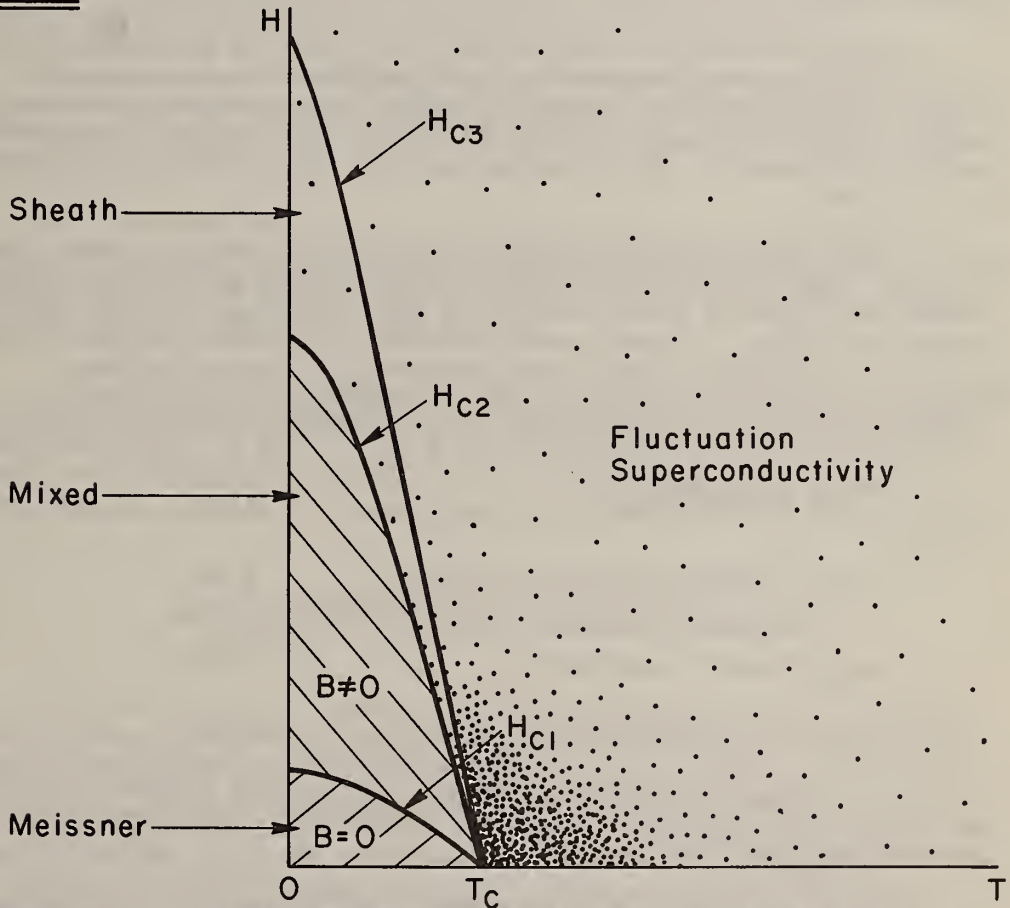


Figure 2. H-T phase diagram representation of Type I and Type II superconductors with locations for fluctuation superconductivity indicated. (R. R. Hake, personal communication and J. Applied Phys. 40, 5148 (1969). "The Thermodynamics of Type I and Type II Superconductors").

which have been prepared and tested for superconductivity are presented as a function of valence electron per atom ratio.^(a) The pronounced peaking at 4.7 and 6.7 is evident. The evidence for the peak below the value 4 has been demonstrated from a group of alloys with seven different crystal structures.^(b) Many additional parameters such as the mean atomic volume, the valence electron density and the mass of the constituent atoms have been useful but most often only in comparison among similiar structures or materials. A recently described oscillatory dependence of T_c on the mean number of valence electrons per atom has been described for the Cu_3Au -type ($L1_2$) alloys.^(c) In five ternary alloy systems they find maxima in T_c near 3.3 and 3.7 valence electrons per atom. The authors indicate that Brillouin zone effects lead to the oscillatory behaviour.

Another theoretical insight leap is needed to lead materialists to the 30 K critical temperature realm which the superconductive technologists state would greatly amplify the present application of superconductive devices. Critical temperatures around 30 K would permit high magnetic field production with inexpensive liquid hydrogen as a coolant.

A wave of interest has swept the technical world for even higher critical temperatures in one-dimensional organic materials and two-dimensional layered arrays requiring new mechanisms for the superconductive state. A novel series of metallo-organic compounds have just been reported^(d) which are composed of "atomically-thin, metallic layers of TaS_2 and layers of substituted pyridines" in alternation. Selected examples of such sandwich construction are

TaS_2 (pyridine) _{0.5}	$\frac{T_c}{3.55}$
TaS_2 (4-Dimethylamino pyridine) _{0.34}	2.30
TaS_2 (3-Ethyl pyridine) _{0.29}	4.50
TaS_2 (2,3,6-Trimethyl pyridine) _{0.165}	1.95

from data on twenty combined materials. The added complexity for systematic data selection from these materials could become quite involved as this field may grow.

Several selected new developments include the reconsideration of Pauling's resonating-valence-bond theory of superconductivity^(e) which gives good correlation for observed and calculated critical temperatures of Y, Zr, Nb, Mo, Tc, Ru and Rh.

Not only has fluctuation superconductivity been well documented above T_c but in high field superconductors two types of behavior have been delineated:^(f) "standard" Type II and "extreme" Type II. The need for designation in these tables is under study.

Perusal of the new data in the "Pressure" portion of Table 1

illustrates the intense activity of study of the elements under various very high pressures and we note that several elements have been found superconductive including the alkali metal Cs. Further data are given in Table 2 along with a considerable number of new results on alloys prepared or studied while under high pressure.

A significant block of study has enveloped the discovery of the high critical temperatures in the ternary alloys of Nb (Al, Ge) and suitably composed and annealed alloys have been found to have an onset critical temperature of 20.98 K^(g) and has been quoted as 21 ± 0.1 K^(h).

Andres and Jensen⁽ⁱ⁾ have shown a clear correlation of T_c with the mean electron density in over fifty alloys of the noble transition elements covering the temperature range 0.015 K to 5 K.

An extension of Ginzburg and Kirzhnits theory of surface superconductivity by Pashitskii^(j) suggests another mechanism for the superconductive state with critical temperatures in the realm of $\sim 10^2$ to 10^3 K.

A calculated value of the critical temperature of Al which agrees well with experiment has been obtained from inelastic neutron scattering data on phonons and the Heine-Abarenkov pseudopotential for the electron-ion form factor.^(k)

The critical temperature of Be co-deposited at low temperatures with KCl or zinc etioporphyrin has been found to increase T_c from the usual range of 5.4 to 8.6 K to 10.2 and 10.6 K respectively.^(l) These very new results may be due to three-dimensional electron quantization effects on superconductivity in very tiny crystallites.^(m)

METALLURGICAL ASPECTS OF SAMPLE PREPARATION

The sensitivity of superconductive properties to the material state is most pronounced and has been used on occasion 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 usually 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.

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NOTES CONCERNING THE DATA TABLES

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 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 compositions, 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.

PROPERTIES OF THE SUPERCONDUCTIVE ELEMENTS

Table 1. Properties of the Superconductive Elements (New Data on the Elements are Referenced in Table 2 Along with Crystal Structure Data and Parameters for Non-superconductive Elements)

Element	T_c (K)	H_0 (oersteds) ¹	θ_D (K) [†]	γ (mJ mole ⁻¹ deg. K ²) [‡]
Al	1.175	104.93	420	1.35
Be	0.026			0.21
Cd	0.56, 0.518	29.6	209	0.688
Ga	1.0833	59.3	325	0.60
Ga (β)	6.2			
Ga (γ)	7.62	HF*		
Hg (α)	4.154	411	87, 71.9	1.81
Hg (β)	3.949	339	93	1.37
In	3.405	281.53	109	1.672
Ir	0.14, 0.11	19	425	3.27
La (α)	4.88	808	142	10.0
La (β)	6.0	1,600	139	11.3
Mo	0.916	90	460	1.83
Nb	9.25	1970, HF	277	7.80
Os	0.655	65	500	2.35
Pa	1.4			
Pb	7.23	803	96.3	3.0
Re	1.697	188	415	2.35
Ru	0.493	66	580	3.0
Sb	2.6-2.7**	HF		
Sn	3.722	305	195	1.78
Ta	4.47	831	258	6.15
Tc	7.79, 7.92			
Th	1.374	131, 162	163.3	4.31
Ti	0.39	56, 100	429	3.32
Tl	2.39	179	78.5	1.47
V	5.31	1100, HF	382	9.82
W	0.0154	1.15	550	0.90

Note: Symbols explained on page 13.

Element	T_c (K)	H_0 (oersteds) ¹	θ_D (K) [†]	γ (mJ mole ⁻¹ deg. K ²)
Zn	0.875	55	319.7	0.633
Zr	0.53	47	290	2.78
Zr (u)	0.65			

Thin Films Condensed at Several Temperatures

Al	1.30-~5.7	
Be	5-8.2	HF
	with KCl 6.5-10.6	
	with Zn etio-porphyrin	
	10.2	
Bi	6.154, 6.173	
Ga	8.4, 6.5	
In	3.43-4.5	
	in Glass Pores	
	3.68-4.17	HF
La	5.0-6.74	
Mo	4-6.7	
Nb	6.2-10	HF
Pb	7.7	
Re	~7	
Sn	3.84-6.0	
Ta	3.16-4.8	HF
Ti	1.3	
W	1.7-4.1	
Zn	~1.9	

DATA FOR ELEMENTS STUDIED UNDER PRESSURE

Element	$T_c(K)$	Pressure ²
As	0.31-0.5	220-140 kbar
	0.2-0.25	~140-100 kbar
Ba II	~1.3	55 kbar
III	3.05	85-88 kbar
III	~5.2	> 140 kbar
Bi II	3.916, 3.90, 3.86	25, 25.2, 26.8 katm
III	6.55, 7.25	~37 kbar, 27-28.4 katm
IV	7.0	43, 43-62 kbar
V	8.3, 8.55	81 kbar
VI	8.55	90, 92-101 kbar
Ce	1.7	50 kbar
Cs	~1.5	> ~125 kbar
Ga II	6.24, 6.38	≥35 katm
II'	7.5	≥35 katm Then $P \rightarrow 0$
Ge	4.85-5.4	~120 kbar
La	~5.5-11.93	0 to ~140 kbar
P	4.7	>100 kbar
	5.8	170 kbar
Pb II	3.55, 3.6	160 kbar
Sb	3.55	85 kbar
	3.52	93 kbar
	3.53	100 kbar
	3.40	~150 kbar
Se II	6.75, 6.95	~130 kbar
Si	7.1	120-130 kbar
Sn II	5.2	125 kbar
	4.85	160 kbar
III	5.30	113 kbar

Element	T_c (K)	Pressure ²
Te II	2.05	43 kbar
III	4.28	70 kbar
IV	4.25	84 kbar
Tl (CUB)	1.45	35 kbar
(HEX)	1.95	35 kbar
U	2.3	10 kbar
Y	$\sim 1.2 \sim 2.7$	120-170 kbar

† For another data set see Mendelssohn, K., Cryophysics, p. 178 (Interscience, New York, 1960) and Gschneidner, K.A., Jr. in Solid State Physics 16, 275-426 (1964).

‡ Parkinson, D.H., Rep. progr. Phys. 21, 226 (1958). Also see Reference 572 and Gschneidner, K.A., Jr. in Solid State Physics 16, 275-426 (1964).

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.

** Metastable

¹To convert "oersteds" to ampere/meters, multiply by 79.57.

²To convert "atm" to "newton/meter²", multiply by 1.013×10^5 .

TABULATION OF SUPERCONDUCTIVE MATERIALS

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

Symbols used:

- * 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_0 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 Angstrom units.
- $T_c^!$ (----) Denotes incremental changes in T_c from T_c of pure metal. For example, $T_c^! (+0.05)$ denotes that two or more measurements have been made by adding a small amount of alloying element to a metal to form a dilute alloy and in so doing the T_c has been raised by 0.05 K.

The entry $T_c^! (-0.3 \text{ K/a}\%)$ would indicate two or more measurements in which the critical temperature decreased 0.3 K per atomic percent of alloying element added.
- t T_c / T_{c0}
- 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.
- $\square$ Vacancy

Some of the above symbols may be found only in PROGRESS IN CRYOGENICS IV, 160-231, (1964).

KEY TO CRYSTAL STRUCTURE TYPES FOUND IN TABLE 2

"Strukturbericht" 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 ₂ In	Hexagonal
B10	PbO	Tetragonal
B11	γ -CuTi	Tetragonal
B17	PtS	Tetragonal
B18	CuS	Hexagonal
B20	FeSi	Cubic
B27	FeB	Ortho-rhombic

*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.

"Strukturbericht" Type)*	Example	Class
B31	MnP	Ortho-rhombic
B32	NaTl	Cubic, f.c.
B34	PdS	Tetragonal
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 ₂ Mg	Cubic, f.c.
C15 _b	AuBe ₅	Cubic
C16	CuAl ₂	Tetragonal, b.c.
C18	FeS ₂	Ortho-rhombic
C22	Fe ₂ P	Trigonal
C23	PbCl ₂	Ortho-rhombic
C32	AlB ₂	Hexagonal
C36	MgNi ₂	Hexagonal
C37	Co ₂ Si	Ortho-rhombic
C49	ZrSi ₂	Ortho-rhombic

"Strukturbericht"

Type*	Example	Class
C54	TiSi ₂	Ortho-rhombic
C _c	Si ₂ Th	Tetragonal, b.c.
DO ₃	BiF ₃	Cubic, f.c.
DO ₁₁	Fe ₃ C	Ortho-rhombic
DO ₁₈	Na ₃ As	Hexagonal
DO ₁₉	Ni ₃ Sn	Hexagonal
DO ₂₀	NiAl ₃	Ortho-rhombic
DO ₂₂	TiAl ₃	Tetragonal
DO _e	Ni ₃ P	Tetragonal, b.c.
D1 ₃	Al ₄ Ba	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 ₂ O ₃	Trigonal
D5 ₈	Sb ₂ S ₃	Ortho-rhombic
D7 ₃	Th ₃ P ₄	Cubic, b.c.
D7 _b	Ta ₃ B ₄	Ortho-rhombic
D8 ₁	Fe ₃ Zn ₁₀	Cubic, b.c.
D8 ₂	Cu ₅ Zn ₈	Cubic, b.c.
D8 ₃	Cu ₉ Al ₄	Cubic
D8 ₈	Mn ₅ Si ₃	Hexagonal
D8 _b	CrFe	Tetragonal

"Strukturbericht"

Type*	Example	Class
D8 _i	Mo ₂ B ₅	Rhombohedral
D10 ₂	Fe ₃ Th ₇	Hexagonal
E2 ₁	CaTiO ₃	Cubic
E9 ₃	Fe ₃ W ₃ C	Cubic, f.c.
H1 ₁	Al ₂ MgO ₄	Cubic, f.c.
L1 ₀	CuAu	Tetragonal
L1 ₂	Cu ₃ Au	Cubic
L' _{2b}	ThH ₂	Tetragonal, b.c.
L' ₃	Fe ₂ N	Hexagonal

Table 2. Tabulation of Superconductive Materials (including Proven Non-superconductors) with Critical Temperatures and Fields, Crystal Structure Data where determined, and references. (See VIII-1 for symbols)

Material	T_c (K)	H_o (oersteds) ¹	Crystal Structure	T_n^{**}	Ref.
Ag Zn				1.30	1009
Al	1.187				755
Al	1.175	104.8			762#
Al (420-9850A.)	1.217-1.405				757 [∇]
Al					758 [∇]
Al (cold worked)	T'_c (-0.028)				746
Al	1.174 (extrap.)				746
Al (50-100A)	2.25-1.15				828 [∇]
Al (vs Pressure)	2.1-1.7				826 [∇]
Al (to 160A.)	~5.7 max.				837 [∇]
Al (~12-60A.)	3.0-4.6-3.8				837 [∇]
Al	1.19				856#
Al (200-200,000A.)		HF			888
Al (Granular)	3.66, 2.30				937 [∇]
Al	1.18	103			791#
Al (also vs Pressure)	1.1793	104.93			1004#
$Al_{0.9}As_{0.05}Ga_{0.05}Nb_3$	19.2				939
$Al_{1-x}As_xNb_3$	18.52, and lower				939
$Al_{1-x}As_xV_3$	10.6-10.1		A15		1015
$Al_{0.15}As_{0.85}V_3$	~3.0-2.5		A15		1015
$Al_{0.4}As_{0.6}V_3$	~6.7-6.6		A15		1015
$Al_{0.45}As_{0.55}V_3$	~7.6-7.3		A15		1015
$Al_{0.6}As_{0.4}V_3$	~10.4-10.0		A15		1015
Al_2Au				0.1	1011
$Al_{0.1}Au_{0.9}V_3$			A15	1.2	1015
$Al_{0.15}Au_{0.85}V_3$			A15	1.2	1015

¹ To convert "oersteds" to ampere/meters, multiply by 79.57

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Al _{0.2} Au _{0.8} V ₃			A15	1.2	1015
Al _{0.35} Au _{0.65} V ₃			A15	1.2	1015
Al _{0.5} Au _{0.5} V ₃			A15	1.2	1015
Al _{0.2} B ₅ Mo _{1.8}	5.7		C32		767
Al ₂ C Mo ₃	9.2	HF	A13		966#
Al C Ti ₃				1.15	711
Al C Y ₃				1.15	711
Al ₂ Ce _x La _{1-x}	3.237-2.1				953
Al _{0.999} Fe _{0.001}	1.50				976#
Al _{1-x} Ga _x Nb ₃	18.52 (and higher)				939
Al _{1-x} Ga _x V ₃	14.5-5.5		A15		890
Al ₂ Gd _x La _{1-x}	3.237-1.0				953
Al Gd _x La _{3-x}	6.16-2.03		DO ₁₉		943
Al _{3-x} Gd _x La	2.2-6.16	HF			918
Al _{2.966} Gd _{0.034} La	2.05	HF	DO ₁₉		918
Al _{2.968} Gd _{0.032} La	3.00	HF	DO ₁₉		918
Al _{2.98} Gd _{0.02} La	4.00	HF	DO ₁₉		918
Al _{2.988} Gd _{0.012} La	5.00	HF	DO ₁₉		918
Al _{1-x} Ge _x	T _c '(-0.018)				746
Al Ge _{0.026}	T _c '(+0.005)				746
Al _{0.65} Ge _{0.35} Hf _{3y} Nb _{3(1-y)}	20.1-4.0-6.2 (annealed)				885
Al _{0.70-0.75} Ge _{0.30-0.25} Nb ₃	21.0		A15		1019
Al _{0.8} Ge _{0.2} Nb ₃	19.1-17.8	HF			823
Al _{0.72} Ge _{0.28} Nb _{3.36}	18.38 19.04(annealed)				859
Al _{0.72} Ge _{0.28} Nb _{3.61}	18.45 18.97(annealed)				859
Al _{1-x} Ge _x Nb ₃	20.7	HF			876
Al _{1-x} Ge _x Nb _{3(1-y)} Zr _{3y}	20.2-6.1				885
Al _{0.75} Ge _{0.25} Nb ₃	20.2				885

Material	T_c (K)	H_0 (oersteds)	Crystal Structure	T_n	Ref.
$Al_{0.65}Ge_{0.35}Nb_3(1-y)Zr_{3y}$	18.5-5.1-6.1 (as cast) 20.1-5.3-10.3 (annealed)				885
$Al_{0.65}Ge_{0.35}Nb_3$	20.1				885
$Al_{0.65}Ge_{0.35}Nb_3(1-y)Ti_{3y}$	18.50-1.37-1.8 (as cast) 20.1-4.7-6.2 (annealed)				885
$Al_{0.66}Ge_{0.33}Nb_{2.5}$	19.6-20.1	HF			896
$Al_{0.75}Ge_{0.25}Nb_3$	18.5 ± 0.9	HF			789
$Al_{0.75}Ge_{0.25}Nb_3$	18.5 ± 0.9				789
$Al_{0.153}Ge_{0.057}Nb_{0.79}$		HF	A15		787
$Al_xGe_{1-x}Nb_3$	11.4		A15		708
$Al_{0.8}Ge_{0.2}Nb_3(2000A)$	10.7		A15		708 ^v
$Al_xGe_{1-x}Nb_3$	4.2-11.4				708 ^v
$Al_{1-x}Ge_xV_3$	6.5-12.3		A15		890
$Al_xGe_{1-x}V_3$	5.9-13.9		A15		894
$Al_xGe_{1-x}V_3$	5.9-12-9.8-11.15		A15		894
$Al_{0.212}Ge_{0.036}V_{0.751}$	10.65, 6.42		A15		792
$Al_{0.175}Ge_{0.072}V_{0.753}$	10.98, 7.0		A15		792
$Al_{0.125}Ge_{0.121}V_{0.754}$	6.67, 9.98		A15		792
$Al_{0.075}Ge_{0.169}V_{0.756}$	11.8		A15		792
$Al_{0.038}Ge_{0.205}V_{0.757}$	9.7		A15		792
$Al_{0.1}Ge_{0.9}V_3$	9.2-8.9		A15		1015
$Al_{0.2}Ge_{0.8}V_3$	11.3-11.1		A15		1015
$Al_{0.3}Ge_{0.7}V_3$	12.0-11.5		A15		1015
$Al_{0.4}Ge_{0.6}V_3$	12.5-12.3		A15		1015
$Al_{0.5}Ge_{0.5}V_3$	11.8-11.4		A15		1015
Al_2La	3.237				953
$AlLa_3$	6.16	HF	DO ₁₉		943
Al_4La				1.15	711
Al_2La (Plus Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb)	3.24 (all cases)				794

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Al Mg _{0.0106}	1.132				856#
Al Mg _{0.0049}	1.138				856#
Al Mg _{0.0009}	1.17				856#
Al _{1-x} Mn _x	1.17-0.12				951
Al ₅ Mo				1.15	712
Al _{0.215} Nb _{0.785}	17.97, 17.28				859
Al Nb ₃ (diffusion wire)	17.14	HF	A15		880
Al Nb ₃	18.52-18.9		A15		939
Al Nb ₃	17.77-16.3		A15		801
Al Nb ₃	≈18.7	HF	A15		787
Al _{0.8-0.1} Nb ₃ Sb _{0.2-0.9}	16.74-3.92		A15		801
Al _{0.95} Nb ₃ Sb _{0.05}	17.81		A15		801
Al _{0.9} Nb ₃ Sb _{0.1}	18.06		A15		801
Al _x Nb _{4x} Si _{1-x} V _{3(1-x)}	16.5-4.0-16.7		A15		893
Al ₃ Os ₂				1.15	711
Al ₂ Os				1.15	711
Al ₂ Os				1.15	711
Al ₆ Re	1.85				711
Al ₁₂ Re				1.15	712
Al _{1-x} Sb _x V ₃	4.5-7.2		A15		890
Al _{1-x} Si _x	T' _c (-0.019)				746
Al _{1-x} Si _x V ₃	5-14.5		A15		890
Al _{0.0015} Sn _{0.9985}		HF			850
Al _x Sn _{1-x}	3.72-3.692				850
Al _{1-x} Sn _x V ₃	4.5-6		A15		890
Al ₂ Th ₃	2.6		Tet.		927
Al ₃ U			L1 ₂	0.07	715

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Al_{0.24}V_{0.76}$	11.15		A15		394
$Al V_3$					824
$Al V_3$	11.65		A15		792
Al_2Y_3				1.15	711
$Al Y_2$				1.15	711
$Al Y$				1.15	711
Al_3Yb	0.94		$L1_2$		715
$Al_{1-x}Zn_x$	$T_c (-0.037)$				746
$As \begin{cases} 220-140 \text{ kbar} \\ \sim 140-100 \text{ kbar} \end{cases}$	$\begin{matrix} 0.31-0.5 \\ 0.2 -0.25 \end{matrix}$				898
As				1.3	774
$As_2Cd \text{ Ge}(60-70 \text{ kbar})$	2.84-3.02		Tet.		867
$As_2Cd \text{ Sn}(60 \text{ kbar})$	1.79-2.29		B1		865
As Ge (30-65 kbar)	3-3.5				891
$As_{0.04}Ge_{0.15}Te_{0.81} (n \approx 10^{20})$	0.82R, 0.56				875
$As_3Sn_{3.80} (n=3.0 \times 10^{22})$	1.23-1.19				930
$As V_3$			A15	1.2	015
$Au Al_2$	0.095-0.074				866#
$Au_{0.2}B_5Mo_{1.8}$	4.5, 3.6-2.5		C32		767
$Au_{0.1}C_{1.30}Y_{0.9}$	10.1		$D5_c$		870
$Au Ga_2$	1.12				1011
$Au Ga_2$	1.12-1.05		C1		866#
$Au_{0.98}Ga_2Pd_{0.02}$	1.35-1.25		C1		866#
$Au_{0.95}Ga_2Pd_{0.05}$	1.79				1011
$Au_{0.9}Ga_2Pd_{0.1}$	1.73-1.72		C1		866#
$Au_{0.85}Ga_2Pd_{0.15}$	1.75-1.73		C1		866
Au Ge	2.7-2.25				908 [∇]
Au Ge				1.4	908
Au In_2				0.1	1011

Material	T_c (K)	H_0 (oersteds)	Crystal Structure	T_n	Ref.
Au In ₂	0.096-0.093				866#
Au _{0.9} In ₂ Pd _{0.1}				0.36	866
Au Nb ₃	10.5		A15		922#
Au Nb ₃	8.99		A15		707
Au Nb ₃	9.73		A15		707
Au Nb ₃	10.60		A15		707
Au _x Nb ₃ Pt _{1-x}	10.7-12.7-11.3 (annealed) 8.3-9.1 (quenched)		A15		934
Au _{0.7} Nb ₃ Pt _{0.3}	12.5		A15		922#
Au _{0.95} Pd _{0.05} Ga ₂	1.75-1.69		C1		866#
Au Ta _{4.3}	0.58-0.51		A15		1015
Au Te ₂ (n=2.5 x 10 ²¹)				0.051	770
Au Ti ₃			A15	0.015	707
Au Ti ₃			A15	0.35	980
Au V ₃	2.55	HF			857
Au _{0.25} V _{0.75}	1.60				948#
Au _{0.25} V _{0.75}	2.20				948#
Au _{0.25} V _{0.75} (as cast)			A15	0.90	948#
Au _{0.25} V _{0.75} (as cast, levitated)	0.67		A15		707
Au _{0.28} V _{0.72} (as cast, levitated)	0.64		A15		707
Au V ₃			A15	0.015	707
Au V ₃	2.930	HF	A15		707
Au V ₃	1.785	HF	A15		707
Au V ₃	0.86	HF	A15		707
Au _{0.23} V _{0.77} (as cast, levitated)	0.66		A15		707
Au V ₃	2.97 to <0.012 (by heat treatment)				987
B C Mo ₂	7.1	HF	Ortho.		966#
B _{0-0.2} C _{1-0.8} Mo	14.3-12.5		B1		1006

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$B_6Ce_{0.01}Y_{0.99}$	$T'_c(-0.8)$				1014
$B_{12}Ce_xZr_{1-x}$	$T'_c(-0.15 \text{ K/}^\circ\text{O})$				782
$B_6Dy_{0.01}Y_{0.99}$	$T'_c(-0.65)$				1014
$B_{12}Dy_xZr_{1-x}$	$T'_c(-0.45 \text{ K/}^\circ\text{O})$				782
$B_6Er_{0.01}Y_{0.99}$	$T'_c(0.25)$				1014
$B_{12}Er_xZr_{1-x}$	$T'_c(-0.25 \text{ K/}^\circ\text{O})$				782
$B_6Eu_{0.01}Y_{0.99}$	$T'_c(-0.3)$				1014
$B_{12}Gd_xZr_{1-x}$	$T'_c(-0.6 \text{ K/}^\circ\text{O})$				782
$B_5Hf_{0.2}Mo_{1.8}$	8.7, 8.4-8.1		C32		767
$B_5Hf_{0.2}Nb_{1.8}$	4.5, 3.6-2.6		C32		767
$B_6Ho_{0.01}Y_{0.99}$	$T'_c(-0.4)$				1014
$B_{12}Ho_xZr_{1-x}$	$T'_c(-0.3 \text{ K/}^\circ\text{O})$				782
$B_{2.5}Mo$	8.1, 7.45-5.2		C32		767
B_2Mo			C32	1.0	767
$B Mo_2$	5.86				1020
$B_5Mo_{0.2}Nb_{1.8}$	4.9, 4.3-4.0		C32		767
$B_5Mo_{1.7}Nb_{0.3}$	8.5, 8.3-8.2		C32		767
$B_5Mo_{1.8}Sc_{0.2}$	9.0, 8.8-8.3		C32		767
$B_5Mo_{1.7}Ta_{0.3}$	7.0, 7.0-5.9		C32		767
$B_5Mo_{1.7}Ti_{0.3}$	7.4, 7.1-5.5		C32		767
$B_5Mo_{1.7}V_{0.3}$	5.8, 5.5-5.0		C32		767
$B_5Mo_{1.9}Y_{0.1}$	8.6, 8.0-7.5		C32		767
$B_5Mo_{1.9}Zr_{0.1}$	9.0, 8.9-8.4		C32		767
$B_5Mo_{1.69}Zr_{0.31}$	11.2, 10.3-8.5		C32		767
$B_2Mo_{1-0.75}Zr_{0-0.25}$	<1 to 10.3				767
$B_{2.5}Nb$	6.4, 4.0-3.0		C32		767
B_2Nb_3			Tet.	0.1	927
B_2Nb			C32	1.0	767

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
B_2Nb					810#
$B_5Nb_{1.8}Ru_{0.2}$	6.0, 5.4-3.0		C32		767
$B_5Nb_{1.9}Sc_{0.1}$	6.6, 4.2-3.0		C32		767
$B_5Nb_{1.8}Th_{0.2}$	7.0, 6.1-4.9		C32		767
$B_5Nb_{1.9}Ti_{0.1}$	4.0, 2.9-2.2		C32		767
$B_5Nb_{1.8}V_{0.2}$	2.5, 2.2-1.1		C32		767
$B_5Nb_{1.9}Y_{0.1}$	9.3, 8.2-5.2		C32		767
$B_5Nb_{1.8}Zr_{0.2}$	5.9, 5.1-2.6		C32		767
$B_6Nd_{0.01}Y_{0.99}$	$T'_c(-0.15)$				1014
$B_{12}Nd_xZr_{1-x}$	$T'_c(-0.6 \text{ K/a/o})$				782
$B_6Pr_{0.01}Y_{0.99}$	$T'_c(-0.1)$				1014
$B_{12}Pr_xZr_{1-x}$	$T'_c(-13 \text{ K/a/o})$				782
$B_6Sm_{0.01}Y_{0.99}$	$T'_c(-0.4)$				1014
$B_{12}Sm_xZr_{1-x}$	$T'_c(-0.6 \text{ K/a/o})$				782
B_2Ta_3			Tet.	0.1	927
$B_6Tb_{0.01}Y_{0.99}$	$T'_c(-0.9)$				1014
$B_{12}Tb_xZr_{1-x}$	$T'_c(-0.6 \text{ K/a/o})$				782
$B_6Tm_{0.01}Y_{0.99}$	$T'_c(-0.4)$				1014
$B_{12}Tm_xZr_{1-x}$	$T'_c(-0.35 \text{ K/a/o})$				782
B_2V_3			Tet.	0.1	927
$B W_2$	3.18				1020
$B_6Y_{0.99}Yb_{0.01}$	$T'_c(-0.2)$				1014
$B_{12}Yb_{0.01}Zr_{0.99}$	4.4				1014
$B_{12}Zr$	6.0		Cub.		782
Ba (III) (Metastable, 85-88 kbar)	3.05				902
Ba (II) (at 55 kbar)	~ 1.3				777
Ba (III) (At or >140 kbar)	~ 5.2				777
Ba Bi ₃	5.80		Tet.		715

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Ba_{0.075}O_3Sr_{0.925}Ti$	~ 0.5				988#
$Ba_{0.025}O_3Sr_{0.975-0.875}Ti$ 0.125	0.52-<0.10	HF			1005
$Be O_3Ti(n=1.3 \times 10^{20})$	$(n = 0.05-34 \times 10^{19})$			0.059	770
Be (with KCl at 4.2 K)	10.6, 8.3, 6.5				1028 [∇]
Be (with zinc etio- porphyrin)	10.2				1028 [∇]
Be (25-200A)	6.4-8.2-5				899 [∇]
Be (>200-1000A)				1.3	899 [∇]
Be (~ 40 ppm impurity)	0.026				783#
Be_5Co				1.15	712
$Be_{12}Co$				1.15	712
$Be_{11}Fe$				1.15	712
$Be_{17}Hf_2$				1.15	712
$Be_{13}Hf$				1.15	712
$Be_{12}Mn$				1.15	712
$Be Mo_3$				1.15	712
Be_2Nb_3	2.3		Tet.		927
Be_3Nb				1.15	712
$Be_{17}Nb_2$	1.47				712
Be_2Nb	2.15				712
$Be_2Nb_{1.5}Ta_{1.5}$	1.7		Tet.		927
Be_2Os	3.07				712
Be_2Rh	1.37				712
$Be_{17}Ru_3$				1.15	712
Be_2Ru	1.35				712
Be_2Ta_3	1.0		Tet.		927
$Be_{13}Th$				1.15	712
$Be_{13}Ti$				1.15	712

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Be ₁₂ Ti				1.15	712
Be ₂₁ W ₅				1.15	712
Be ₁₃ Zr				1.15	712
Be ₁₆ Zr				1.15	712
Be ₁₇ Zr ₂				1.15	712
Bi (V) (Ref.903 says BiVI)	8.55				904
Bi (VI) (90 kbar)	8.55				903
Bi (V) (68 kbar)	6.7				903
Bi (IV) (43 kbar)	7.0				903
Bi (V) (81 kbar)	8.30				780
Bi					773 [∇]
Bi (II) (26.4 kbar)		~320			785
Bi (690A at 1.5 K)	6.173				737 [∇]
Bi (750A at 4.2 K)	6.154				737 [∇]
Bi (III) (~37 kbar)	6.55	HF			973
Bi _{0.3} C _{1.45} Y _{0.7}				4.0	870
Bi _{0.1} C _{1.45} Y _{0.9}	9.35		D5 _c		870
Bi _{0.015} In _{0.985}					822 [∇]
Bi _{0.343} In _{0.657} (also to 30 kbar)	5.55				843
Bi _{0.015} In _{0.985}	3.725				842
Bi _x In _{1-x}	3.39-4.21				799
Bi _{0.019} In _{0.981}	3.86	336			722
Bi ₂ K (0 to 10 katm also)	3.57				897
Bi _x Pb _{1-x}		HF			750 [∇]
Bi _{0-0.056} Pb _{1-0.44}		HF			855
Bi _{0.38-.88} Pb _{0.62-0.12}	8.5-4.6				851
Bi _{0.26} Pb _{0.74}	8.3				851
Bi _{0.23} Pb _{0.77}	7.8				851

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Bi_{0-0.2}Pb_{1-0.8}$	7.25-8.0		Al		851
$Bi_{0.1-1}Pb_{0.9-0}$ (deposited at 4.2 K)	6-7.1				851
Bi_xPb_{1-x}					852
$Bi_{0.625}Pb_{0.375}$	8.05, 7.25 (after 30 kbar applied)				843
Bi_xPb_{1-x}	$T'_c(+0.22)$				861
$Bi_{0.025-0.40}Pb_{0.975-0.60}$	$t = 0.58-0.50$	HF			949
$Bi_{1-0.92}Pb_{0-0.08}$ (500-1100A)	6.154-6.032				737 [∇]
$Bi_{1-0.95}Sb_{0-0.05}$ (~700-900A)	6.154-6.374				737 [∇]
Bi Sn	3.72, 4.20 (after 30 kbar)				843
Bi_3Sr	5.70		$L1_2$		715
Bi_2Te_3 ($n = 1.0 \times 10^{21}$)				0.019	770
Bi Ti_3				1.15	712
Bi_xTl_{1-x}	$T'_c(+0.16)$		Hex.		858
$Bi_{0.86}Tl_{0.14}$	650 and at 30 kbar				843
$Bi_{0.62-0.18}Tl_{0.38-0.82}$	6.6-2.3				736
$Bi_{1-0.87}Tl_{0-0.13}$ (550-820A)	6.154-6.220				737 [∇]
$Bi_{\sim 0.97}Tl_{\sim 0.03}$ (at 4.2 K)	6.1				990 [∇]
Bi V_3			Al5	4.2	825
$C_{1.35}Ca_{0.1}Y_{0.9}$	10.5-11.5				870
C_2Ce				2.0	784
$C_{1.45}Cr_{0.1}Y_{0.9}$	12.4		$D5_c$		870
C_2Dy				2.0	784
C_2Er				2.0	784
C_2Gd				2.0	784
$C_{1.5}Ge_3La_5$	3.3-3.7		Cub.		767
$C_{1.35}Ge_{0.1}Y_{0.9}$	10.6		$D5_c$		870
$C_{2.5}H_{2.5}N_{0.5}Pd$ Te_2	1.65		Hex.		1027
$C_{2.5}H_{2.5}N_{0.5}S_2Ta$	3.5	HF	Hex.		1027

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
C _{2.5} H _{2.5} N _{0.5} Nb S ₂	4.0		Hex.		1027
C _{2.5} H _{2.5} N _{0.5} Se ₂ Ta	1.5		Hex.		1027
C Hf _{0-0.2} Mo _{1-0.8}	14.3-11.7		B1		1006
C ₂ Ho				2.0	784
C _{1.35} In _{0.15} Y _{0.85}				4.0	870
C Ir ₂ Mo ₃	1.8		Cub.		793
C Ir Mo ₃	3.2		Cub.		793
C ₂ Ir U ₂			Tet.	0.3	1018
C Ir ₂ W ₃	2.1		Cub.		793
C ₂ La	1.61		Tet.		863
C ₃ La ₂	5.9-11.0		D ₅ _c		869
C ₂ La				2.0	784
C ₂ Lu	3.33		Tet.		863
C ₂ Lu				2.0	784
C Mo	8.0				815
C Mo ₂	2.9				815
C _{0.42} Mo	2.8		L' ₃		966#
C Mo ₂	4.0		Ortho.		966#
C _{0.64} Mo	8.0	HF	Hex.		966#
C _{0.69} Mo	12.1	HF	B1		966#
C Mo	14.3		B1		1006
C Mo ₁₋₀ Nb ₀₋₁	11.1-10.8-14.3		B1		1006
C Mo ₃ Pt ₂	1.1		Cub.		793
C Mo ₃ Re ₂			Hex.	1.0	793
C ₂ Mo Re	3.8		Cub.		793
C Mo _{0.90} Re _{0.10}	13.8		B1		1006
C Mo _{0.90} Ru _{0.10}	13.6		B1		1006
C Mo ₁₋₀ Ta ₀₋₁	10.1-8.3-14.3		B1		1006

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
C Mo _{1-0.8} Ti _{0-0.2}	14.3-12.0		B1		1006
C Mo _{1-0.8} V _{0-0.2}	14.3-12.7		B1		1006
C Mo ₁₋₀ W ₀₋₁	14.3-8.8-10.0		B1		1006
C _{1.45} Mo _{0.1} Y _{0.9}	13.8		D5 _c		870
C Mo _{1-0.8} Zr _{0-0.2}	14.3-10.9		B1		1006
C _{0.48} Nb				1.6	967#
C _{0.77} Nb			B1	2.0	967#
C _{0.83} Nb	2.4		B1		967#
C _{0.86} Nb	3.7		B1		967#
C _{0.91} Nb	6.3		B1		967#
C _{0.96} Nb	9.8		B1		967#
C Nb	11.1		B1		1006
C Nb ₁₋₀ Ta ₀₋₁	11.1-8.9-10.1		B1		1006
C Nb ₁₋₀ W ₀₋₁	11.1-13.5-10.0		B1		1006
C _{1.35} Nb _{0.1} Y _{0.9}	10.8		D5 _c		870
C ₂ Nd				2.0	784
C ₂ Os U ₂			Tet.	0.3	1018
C Os ₂ W ₃	2.9		Cub.		793
C ₂ Pr				2.0	784
C ₂ Pt U ₂	1.47		Tet.		1018
C Pt ₂ W ₃	1.2		Cub.		793
C _{0.04} Re _{0.96}	1.98				712
C Re ₂ W ₃			Al3	1.0	793
C ₂ ReW	3.8		Cub.		793
C _{1.35} Re _{0.3} Y _{0.7}				4.0	870
C ₂ Rh U ₂			Tet.	0.3	1018
C ₂ Ru U ₂			Tet.	0.3	1018
C _{1.35} Ru _{0.3} Y _{0.7}				4.0	870

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
C _{1.35} Ru _{0.1} Y _{0.9}	11.2		D5 _c		870
C ₁₀ Sc ₁₃ (Ge _{0.01} to Ge _{0.16+})	7.0-8.5		Cub.		871
C ₃ Sc ₄			Cub.	1.0	871
C _{1.35} Si _{0.1} Y _{0.9}	11.3		D5 _c		870
C ₂ Sm				2.0	784
C _{1.35} Sn _{0.1} Y _{0.9}	10.2		D5 _c		870
C _{0.78} Ta			B1	1.6	967#
C _{0.47} Ta			C6	1.6	967#
C _{0.95} Ta	6.2		B1		967#
C _{0.93} Ta	5.4		B1		967#
C _{0.83} Ta	1.8		B1		967#
C Ta	10.1		B1		1006
C Ta ₁₋₀ W ₀₋₁	10.1-10.2-9.0-10.0		B1		1006
C ₂ Tb				2.0	784
C _{1.55} Th _{0.3} Y _{0.7}	17.0		D5 _c		870
C _{1.35} Th _{0.1} Y _{0.9}	12.0		D5 _c		870
C _{1.35} Th _{0.2} Y _{0.8}	14.7		D5 _c		870
C _{1.35} Th _{0.3} Y _{0.7}	16.4		E5 _c		870
C _{1.35} Th _{0.35} Y _{0.65}	16.8		D5 _c		870
C _{1.35} Th _{0.4} Y _{0.6}	16.0		D5 _c		870
C _{1.35} Th _{0.5} Y _{0.5}	15.5		D5 _c		870
C _{1.35} Th _{0.6} Y _{0.4}	15.1		D5 _c		870
C _{1.35} Th _{0.7} Y _{0.3}	14.4		D5 _c		870
C _{1.35} Th _{0.8} Y _{0.2}				4.0	870
C _{1.35} Th _{0.9} Y _{0.1}				4.0	870
C _{1.40} Th _{0.3} Y _{0.7}	16.3		D5 _c		870
C _{1.45} Th _{0.3} Y _{0.7}	16.3		D5 _c		870
C _{0.150} Th _{0.25} Y _{0.7}	16.8		D5 _c		870

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$C_{0.155}Th_{0.7}Y_{0.3}$				4.0	870
$C_{1.65}Th_{0.4}Y_{0.6}$				4.0	870
$C_{1.35-1.55}Th_{0.40-0.25}Y_{0.60-0.75}$	15.4-17.0		$D5_c$		870
$C_{1.2-2.0}Th_xY_{1-x}$			Tet.	4.0	870
$C_{1.2-2.0}Th_{0.3}Y_{0.7}$			Tet.	4.0	870
$C_{0.52}Ti$	3.42	HF	Cub.		790
$C_{0.69}Ti$			Cub.	1.5	790
$C_{0.83}Ti$			Cub.	1.5	790
$C_{0.91}Ti$			Cub.	1.5	790
$C_{0.46}Ti$	3.32	HF	Cub.		790
$C_{1.55}Ti_{0.1}Y_{0.9}$	14.5		$D5_c$		870
$C_{1.50}Ti_{0.3}Y_{0.7}$	12.9		$D5_c$		870
$C_{1.45}Ti_{0.1}Y_{0.9}$	14.2		$D5_c$		870
$C_{1.35}Ti_{0.1}Y_{0.9}$	10.7		$D5_c$		870
C_2Tm				2.0	764
$C_{1.45}U_{0.15}Y_{0.85}$			$D5_c$	4.0	870
$C V$					8104
$C_{1.45}V_{0.1}Y_{0.9}$	11.5		$D5_c$		870
$C W$	2.5-4.21				815
$C W$	10.0		B1		1006
$C_{1.55}W_{0.1}Y_{0.9}$	14.8		$D5_c$		870
$C_{1.45}W_{0.1}Y_{0.9}$	14.5		$D5_c$		870
$C Y_3$				1.15	711
$C Y_3$				1.4	863
C_2Y	3.75		Tet.		863
$C_{1.55}Y$	6.0		$D5_c$		870
$C_{1.50}Y$	6-8				870
$C_{1.45}Y$	11.5		$D5_c$		870

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$C_{1.35}Y$	10.0		$D5_c$		870
$C_{1.30}Y$	8.2		$D5_c$		870
C_3Y_2	6.0-11.5		$D5_c$		868
C_2Y	3.88		$C11a$		784
$C_{1.35}Y_{0.8}Zn_{0.2}$				4.0	870
$C_{1.45}Y_{0.9}Zr_{0.1}$	13.0		$D5_c$		870
C_2Yb				2.0	784
$Ca H_{18}N_6$				1.9	1010
$Ca_{0.025-0.30}Sr_{0.975-0.70}Ti$	0.50 to <0.05 ($n=0.06-74.0 \times 10^{19}$)	HF			1005
$Ca Pb_3$	0.65 ± 0.4		$L1_2$		715
$Ca Pb_{3x}Tl_{3(1-x)}$	Max. at 3.3, 3.7		$L1_2$		715
$Ca Si_2$	1.58	HF	C_c		961
$Ca Si_2$			$C12$	0.32	961
$Ca Tl_3$	2.04		$L1_2$		715
Cd					933
$Cd Cu$				1.30	1009
$Cd_{0.72-0.07}Hg_{0.28-0.93}$	1.3-3.3		Tet.		732
$Cd_{1-0.72}Hg_{0-0.28}$	0.5-1.35		Hex.		732
$Cd_{0.06-0}Hg_{0.94-1}$	4.09-4.15				732
$Cd_{0.02}Hg_{0.98}$		HF			978
$Cd_{0.015}Hg_{0.985}$		HF			978
$Cd_{0-0.06}In_{1-0.94}$ (quenched)	3.406-3.245		Tet.		728
$Cd_{0.06-0.6}In_{0.94-0.4}$ (quenched)	3.55-3.00		Cub.		728
Cd_xPb_{1-x}	$T_c(-0.08)$				861
Cd_xSn_{1-x}	$T_c(-0.085)$				804
$Cd V_3$			$A15$	4.2	825
$Ce Co_2$	0.53-1.44		$C15$		776
$Ce Co_2$	1.5		$C15$		776

Material	T_c (K)	H_0 (oersteds)	Crystal Structure	T_n	Ref.
$Ce_{1-x}Co_xRu_2$	$T'_c(-1.0 \text{ K/mol}\%)$				946
$Ce_{1-x}Fe_xRu_2$	$T'_c(-9.5 \text{ K/mol}\%)$				946
$Ce_{1-x}Gd_xRu_2$	6.2 - $\approx$ 3.8				946
$CeIn_3$			Ll_2	0.07	715
Ce_xInLa_{3-x}					1012
$Ce_{0.001}La_{0.999}$	3.10				915
$Ce_{0.007}La_{0.993}$ (0-23 kbar)	4.7-6.2				1016
$Ce_{0.013}La_{0.887}$ (0-12-22 kbar)	3.2-3.5-2.3		Hex.		1016
$Ce_{0.013}La_{0.887}$ (0-12-23 kbar)	3.7-3.1-4.3 (as cast)				1016
$Ce_{0.013}La_{0.887}$ (0-12- $\sim$ 140 kbar)	3.7-3.2-11.4				1016
$Ce_{0.02}La_{0.98}$ (0-10-24 kbar)	2.6-<0.3-3				1016
$Ce_{0.16}La_{0.84}$ (27-110 kbar)	4-8.7				1016
Ce_xLa_{1-x}					1012
$Ce_{1-0}La_{0-1}Ru_2$	6.2-6.3-<1.4-4.1		$C15$		1026
$Ce_{0.6-0.3}La_{0.4-0.7}Ru_2$			$C15$	1.4	1026
$Ce_{1-x}Mn_xRu_2$	$T'_c(-11.5 \text{ K/mol}\%)$				946
$Ce_{1-x}Ni_xRu_2$	$T'_c(-0.7 \text{ K/mol}\%)$				946
$CeRu_2$	6.2				946
$CeRu_2$	6.2		$C15$		1026
$CeSn_3$			Ll_2	0.07	715
Ce_xTh_{1-x}					886
Ce_xTh_{1-x}	1.36- $\sim$ 0.07				951
$Ce_{0-0.09}Th_{1-0.91}$	1.35 to <0.5				1012
$Co_{0.02}Cu_{0.98}Rh_2S_4$	$\sim$ 3.8		Hl_1		984
Co_2CuS_4			Hl_1	0.05	984
$Co_xFe_{1-x}U_6$	3.85-2.4				920
$CoGe_2$				0.051	770
$Co_{0.5}Mn_{0.5}U_6$	2.55				920

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Co_{0.002}Mo_{0.815}Re_{0.185}$	5.8	HF			881
$Co_xNi_{1-x}U_6$	2.4-0.41				920
$Co_{0.5}Ni_{0.5}V_3$			A15	2.0	1001
$Co_{0.3}Ni_{0.7}V_3$			A15	2.0	1001
$Co_{0.5}Ni_{0.5}Zr_2$	3.1		C16		914
$Co_xNi_{1-x}Zr_2$	5.0-5.9-1.3-1.4		C16		914
$Co_{0.9}Rh_{0.1}V_3$			A15	2.0	1001
$Co_{0.5}Rh_{0.5}V_3$			A15	2.0	1001
$Co_{0.01}Ti_{0.99}$				1.5	759
$Co U_6$	2.4				920
$Co_{0.25}V_{0.75}$			A15	0.015	948
$Co V_3$			A15	0.015	707
$Co Zr_2$	5.0		C16		914
$Co_{0-0.1}Zr_{1-0.9}$	Max., 3.7, 2.3				717
Cr					788
Cr				0.015	788
$Cr_{0.008}Cu Rh_{1.992}S_4$	~3.9		H1 ₁		984
$Cr_{0.75}Ga_{0.25}$			A15	0.35	945#
$Cr_{0.75}Ge_{0.25}$			A15	1.2	945#
Cr_3Ir	0.168	HF	A15		707
$Cr_{0.835}Ir_{0.165}$	0.77		A15		945#
$Cr_{0.75}Ir_{0.25}$	0.17		A15		945#
Cr_3Ir	0.17		A15		1023
$Cr_{0.73-0.92}Mo_{0.27-0.08}$				0.015	788
$Cr_{0.06-0.57}Mo_{0.94-0.43}$	0.71-0.030				788
$Cr_{0.72}Os_{0.28}$	3.86		A15		707
$Cr_{0.72}Os_{0.28}$	3.95		A15		707
$Cr_{0.72}Os_{0.28}$	4.25		A15		945#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Cr_{0.72}Os_{0.28}$	4.03		A15		707
$Cr_{0.67}Os_{0.33}$	1.03		D8 _b		707
$Cr_{0.79}Pt_{0.21}$			A15	0.015	945#
$Cr_{0.915}Pt_{0.185}$			A15	1.2	945#
$Cr_{0.79}Pt_{0.21}$			A15	0.015	707
Cr_3Rh	0.07		A15		1023
Cr_3Rh	0.072	HF	A15		707
$Cr_{0.75}Rh_{0.25}$	0.07		A15		945#
$Cr_{0.72}Ru_{0.28}$	3.42		A15		945#
$Cr_{0.72}Ru_{0.28}$	3.43		A15		707
$Cr_{0.238}Si_{0.262}$			A15	1.2	945#
$Cr Si$			A15	0.015	945#
$Cr_{0.75}Si_{0.25}$			A15	1.2	945#
$Cr_{0.821}Si_{0.179}$			A15	1.2	945#
Cr_3Si				0.015	707
$Cr_{0.85}Ta_{0.15}$			A1	0.024	963
Cr_xV_{1-x}	1.3-5.1	HF	A2		441#
$Cr_{0.1}V_{0.9}$	3.21				788
$Cr_{0.58-0.945}V_{0.42-0.055}$				0.015	788
$Cr_{0.1-0.48}V_{0.9-0.52}$	3.21-0.10				788
$Cs(V)(>\sim 125 \text{ kbar})$	~ 1.5				781
Cu					756
Cu					713#
$Cu_{0-60}W_{70}Nb_{100-40}W_{70}$		HF			960
Cu_xPb_{1-x}	7.2 $\sim$ 1.5 K				756 ∇
$Cu Rh_2S_4$	4.80-4.65		H1 ₁		984
$Cu Rh_{2-x}S_4Ti_x$	~ 3.0		H1 ₁		984
$Cu Rh_2S_4$	4.35		H1 ₁		983

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Cu Rh _{2-1.5} Se ₄ Sn _{0-0.5}	3.47-~0		H1 ₁		924
Cu Rh ₂ Se ₄	3.47		H1 ₁		924
Cu Rh _{2-x} Se ₄ Sn _x	3.7 to <0.050				714#
Cu Rh ₂ Se ₄	3.49-3.45		H1 ₁		984
Cu Rh Se ₄	3.50		H1 ₁		983
Cu S ₄ Ti ₂			H1 ₁	0.05	984
Cu S ₄ V ₂	4.45-3.95		H1 ₁		984
Cu _{0.810} Sb _{0.190}	0.045-0.070		Hex.		769
Cu _{0.845} Sb _{0.155}	0.127-0.184		L2 ₁		769
Cu _{0.844} Sb _{0.156}	0.067		A3		769
Cu _{0.786} Sb _{0.214}	0.028-0.047		Hex.		769
Cu _{0.76} Sb _{0.24}	0.037-0.041		Ortho.		769
Cu _{0.676} Sb _{0.324}	0.085		C38		769
Cu Zn				1.30	1009
D _{0.018} Nb _{0.982}	~9.23				190
Fe _x Mn _{1-x} U ₆	2.4-2.25-3.85				920
Fe _{0.0008} Mo _{0.725} Nb _{0.061} Re _{0.187}		HF			881
Fe _{0.0008} Mo _{0.725} Nb _{0.061} Re _{0.187}	1.85	HF			881
Fe _x Mo _{0.365} Re _{0.135}	2.1-6.1	HF			881
Fe _{0.0006} Mo _{0.865} Re _{0.135}		HF			881
Fe _x Mo _{0.87} Re _{0.13}		HF			982
Fe _{0.05} Nb _{0.38} Ti _{0.57}	.	HF			905
Fe _{0.75} Ni _{0.25} U ₆	1.4				920
Fe _{0.5} Ni _{0.5} U ₆	2.3				920
Fe _{0.25} Ni _{0.75} U ₆	3.0				920
Fe Np ₆				0.5	920
Fe _{0.02} Re _{0.98}	1.60				712
Fe _{0.05-0.70} Ru _{0.95-0.30}				0.015	788

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Fe _{0.018-0.042} Ru _{0.982-0.957}	0.165-0.018				788
Fe _{0.02} Sc _{0.05} Zr _{0.93}	0.35				744
Fe _{0.0005} Ti _{0.9995}	~0.42		Hex.		962
Fe U ₆					920#
Fe U ₆	3.85				920
Fe U ₆ (3 x 10 ¹² neutrons/ 4 x 10 ⁻⁶ cm ² sec, burn-up)	1.6				907
Ga (Isotope study)	1.0845				938
Ga (4.2 K, warmed to 70 K)	6.5				779 [∇]
Ga (4.2 K)	8.4				779 [∇]
Ga (II') (35 katm then to 0)	7.5				779
Ga (II) (>35 katm)	6.38				779
Ga					773 [∇]
Ga	1.0833				803
Ga (II)	6.24	620			791#
Ga (I)	1.08	59.3			791#
Ga (ΔT _c =10 ⁻⁵ K)	1.083				1003
Ga _x Ge _{1-x} V ₃	5.9-13.9		Al5		894
Ga ₂ La				1.4	863
Ga La				1.15	711
Ga ₃ Lu	2.30		L1 ₂		715
Ga ₄ Mn _x Mo _{1-x}	8.0-4.0	HF			753
Ga ₃ Nb ₅	1.35				927
Ga P (n=1.0 x 10 ¹⁹)				0.051	770
Ga ₇ Pt ₃				1.1	1008
Ga ₂ Ta ₃			Tet.	0.1	927
Ga ₂ Ta ₃			Tet.	0.1	927
Ga ₂ Th	2.56				711
Ga V ₃	13.87		Al5		1013
Ga V ₃ (sintered rod)	14.1	HF			877

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Ga V_3		HF			872
Ga V_3	14.83	HF	A15		880#
Ga _{0.30-0.03} V _{0.70-0.97}	2-13.7-10.0		A15		901
Ga V_3					957
Ga _{0.143} V _{0.856} (~1% O ₂)			Cub.	4.2	958
Ga ₅ V ₆				4.2	958
Ga $V_{4.5}$	8.6	HF	A15		787
Ga V_3	14.0	HF	A15		787
Ga ₂ Y	1.68		Tet.		863
Ga Y				1.15	711
Ga ₃ Zr ₅	3.85				711
Ga ₃ Zr ₅ (Quenched)	2.5-4.0				711
Ga ₂ Zr ₃			Tet.	0.1	927
Gd _{0.005} La _{0.995}	3.60				915
Gd _x La _{1-x}	3.9-2.8				947#
Gd _{0.014} La _{0.986}				2.0	812
Gd _{0.021} La _{0.979}				2.0	812
Gd _x Pb _{1-x}					748 ⁷
Gd _{0-0.028} Y _{1-0.972}				2.0	812
Ge ₂ La	2.24		C _c		916#
Ge _{1.78} La	1.57		C _c		916#
Ge _{1.78-2.0} La	1.57-2.24		C _c		916#
Ge ₂ La	2.2		C _c		808#
Ge P (30-65 kbar, 400-900°C)	1.8-4.2		Tet.		891
Ge P ₅			Rhomb.	1.25	891
Ge P ₃			Rhomb.	1.25	891
Ge Sn (Two films)	T'_c (-0.08)				989 ⁷
Ge Te		HF			770

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Ge_{0.950}Te$					813#
$Ge_{1.03}Te$ ($n=1.52 \times 10^{21}$)	0.172				807#
$Ge Te_{1.02}$ ($n=1.16 \times 10^{21}$)					807#
$Ge Te_{1.01}$ ($n=1.05 \times 10^{21}$)					807#
$Ge_{0.976}Te$ ($n=8.6 \times 10^{20}$)	0.07				710
$Ge_{0.963}Te$ ($n=9.3 \times 10^{20}$)	0.17				710
$Ge_{0.950}Te$ ($n=11.8 \times 10^{20}$)	0.24				710
$Ge_{0.937}Te$ ($n=15.4 \times 10^{20}$)	0.31				710
$Ge_{1.006}Te$ ($n=7.5 \times 10^{20}$)				0.04	710
Ge_2Th_3			Tet.	0.1	927
$Ge Tl$ (Two films)	$T_c'(+0.11)$				989 ∇
$Ge V_3$	6.104		A15		1013
$Ge V_3$ (13,000A)	6.7	HF			719 ∇
$Ge_{0.96}V_{3.04}$	5.9		A15		894
$Ge_{0.24}V_{0.76}$	5.88		A15		792
$Ge V_3$ (220,000A)	6.7	HF			719 ∇
$Ge V_3$	6.9	HF			719
$Ge V_3$	6.3-6.1		A15		1015
$Ge_{1.62}Y$	2.4		C_c		808#
$Ge Y$				1.15	711
$H_{12}Li N_4$				1.9	1010
$H_{0.036}Nb_{0.964}$	~ 9.22				190
Hf				0.015	942
$Hf_{0.91-0.33}Mo_{0.09-0.67}$	2.1-2.9-1		Cub.		956
Hf Mo_2	~ 1		Cub.		956
Hf Mo_2			C36	0.05	956
Hf Mo_2	0.07		C15		956
$Hf_{0.15}Nb_{0.85}$	9.85				885

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Hf_x Nb_{1-x}$	9.22-9.85-6.5				885
$Hf_x Nb_{1-x}$		HF	A15		441
$Hf_3 Si_2$			Tet.	0.1	927
$Hf_{0.26-0.11} W_{0.74-0.89}$				1.2	956
$Hf_{0.33} W_{0.67}$				0.05	956
$Hf W_2$			C15	0.35	956
$Hf_{0.92-0.66} W_{0.08-0.34}$	2.3-2.8-2.5				956
$Hg_x In_{0.02} Tl_{1-x}$	$T'_c(-0.145)$		Hex.		858
$Hg_x In_{0.01} Tl_{1-x}$	$T'_c(-0.18)$		Hex.		858
$Hg_x Pb_{1-x}$	$T'_c(-0.085)$				861
$Hg_x Sb_{0.0008} Tl_{1-x}$	$T'_c(-0.12)$		Hex.		858
$Hg_x Sb_{0.0004} Tl_{1-x}$	$T'_c(-0.14)$		Hex.		858
$Hg Ti_3$			A15	0.35	980
$Hg_x Tl_{1-x}$	$T'_c(-0.14)$		Hex.		858
$Hg_{\approx 0.0045} Tl_{0.9955}$ (0-24 kbar)	$T'_c(+0.05-0.12)$				998
$Hg_{\approx 0.009} Tl_{0.991}$ (0-25 katm)	$T'_c(-0.02 + 0.02 - 0.14)$				998
$Hg Zr_3$			A15	0.35	980
$Hg_3 Zr$	3.28 ± 0.3				715
In	3.402				765
In	3.405 (cal)	285			749#
In (pressure study)	3.407	192-270			829
In	~ 4.5 max.				837 [∇]
In (200-200,000A)		270			888 [∇]
In					932
In (600-800A) (3600A)	3.47 3.42_5				800 [∇]
In	3.41	293			791#
In (Pores: 65-250A)	3.68-4.17	HF			738
In (Pores: 70-250A)	3.4-4.2				986
$In_{1-x} Fe_x$					748 [∇]

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
In Hg	3.16				959
In_3La	0.70		$L1_2$		715
$In_{3(1-x)}LaSn_{3x}$	Max. 1.2, 6.0		$L1_2$		765
$InLu_3$	0.24, 0.14		$L1_2$		715
$In_{0.998}Mn_{0.002}$	3.129				765
$In_{0.9995}Mn_{0.0005}$	3.281				765
$In_{1-x}Mn_x$	$T'_c(-0.13)$				754
$In_{1-x-y}Mn_xPb_y$	$T'_c(-0.045)$				754
$In_{1-x-y}Mn_xSn_y$	$T'_c(-0.025 + 0.115)$				754
$In_{0.0593}Pb_{0.9407}$					745#
$In_{0.0176}Pb_{0.9824}$					745#
In_xPb_{1-x}		HF			750 ∇
$In_{0-0.65}Pb_{1-0.35}$	7.2-6.05				861
$In_{0.99}Pb_{0.01}$ (200-200,000A)		290			888 ∇
$In_{0.063}Pb_{0.937}$		HF			844
$In_{0.18-0.89}Pb_{0.82-0.11}$	$t = 0.59-0.91$	HF			949
In_xPb_y					936
$In_{0.035}Pb_{0.965}$		HF			919
$In_{0.6}Pb_{0.4}$	6.36	HF			809
$In_{1-0.89}Pb_{0-0.11}$	3.367-4.85		Tet.		969
$In_{0.961}Pb_{0.039}$	3.64	HF			1025
$In_{3(1-x)}Pb_{3x}Y$	Max. 4.7, 1.2		$L1_2$		715
In_3Ru	2.68				711
In Sb (Metastable: 25 kbar)	1.85, 1.6-2.1		A5		761
In Sb (Metastable: 27 kbar)	1.89	~ 100			718#
$In_{1-0}Sb_{1-0}Sn_{0-1}$ (25 kbar)	1.8-3.7		A5		761
In Sb Sn	2.5		A5		761
In_3SbTe_2	~ 0.9				1007

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
In Sc ₂			B8 ₂	4.2	853
In _{1-x} Si _x V ₃					824
In _x Sn _{1-x}					814#
In _{1-0.94} Sn _{0-0.06}	3.4-3.82				763 [∇]
In _{1-0.942} Sn _{0-0.058}	3.4-3.9	275-360			763
In _x Sn _{1-x}		HF			750 [∇]
In _{0-0.06} Sn _{1-0.94}		HF			854 [∇]
In _x Sn _{1-x}					912
In _x Sn _{1-x}		HF			910#
In _{1-x} Sn _x	3.44-3.90				799
In _{3(1-x)} Sn _{3x} Th	3.9 max.		L1 ₂		715
In _{3(1-x)} Sn _{3x} Y	1.5 max.		L1 ₂		715
In Te	2.2	800 ± 50	B1		761
In Te					770
In ₃ Th			L1 ₂	0.05	715
In _x Tl _{1-x}	$T_c'(+0.39)$		Hex.		858
In ₃ U			L1 ₂	0.07	715
In V ₃	13.9		A15		825
In V ₃					824
In ₃ Y	0.78 ± 0.21		L1 ₂		715
In ₃ Yb			L1 ₂	0.05	715
Ir					963#
Ir	0.11-0.10				963
Ir Mo ₃	8.11		A15		707
Ir _{0.82} Mo _{0.18}	0.50-0.40				963
Ir _{0.9} Mo _{0.1}	0.29				963#
Ir _{0.953} Mo _{0.047}	0.168-0.156				963
Ir _{0.973} Mo _{0.027}	0.133-0.125				963
Ir _{0.987} Mo _{0.013}	0.107-0.105				963

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Ir Mo ₃ Nb Pt (as cast)	5.82		A15		707
Ir Mo ₃ Nb ₃ Pt	6.13		A15		707
Ir _{0.1} Nb _{0.9}	2.3				592
Ir Nb ₃	1.3		A15		922#
Ir Nb ₃	1.76		A15		707
Ir _{0.9} Nb _{0.1}	0.060-0.049				963
Ir _{0.925} Nb _{0.075}	0.172-0.16				963#
Ir _{0.965} Nb _{0.035}	0.138-0.11				963
Ir _{0.98} Nb _{0.02}	0.115-0.082				963
Ir _{0.99} Nb _{0.01}	0.102-0.084				963
Ir _{0.9} Os _{0.1}					963#
Ir _{0.7} Os _{0.3}					963#
Ir _{0.65} Os _{0.35}					963#
Ir _{0.6} Os _{0.4}	0.73				963
Ir _{0.7} Os _{0.3}	0.48-0.40				963#
Ir _{0.75} Os _{0.25}	0.40-0.37				963
Ir _{0.1} Os _{0.2} Rh _{0.7}				0.015	963
Ir _{0.75} Os _{0.05} Rh _{0.2}				0.015 .	963
Ir _{0.55} Os _{0.15} Rh _{0.3}				0.015	963
Ir _{0.6} Os _{0.1} Rh _{0.3}				0.015	963
Ir _{0.76} Os _{0.09} Rh _{0.15}				0.015	963
Ir _{0.54} Os _{0.1} Rh _{0.36}				0.015	963
Ir _{0.1} Os _{0.2} Rh _{0.7}			A1	0.014	963
Ir _{0.07} Os _{0.86} Rh _{0.07}	0.064-0.030				963
Ir _{0.088} Os _{0.825} Rh _{0.088}	0.095-0.080				963
Ir _{0.1} Os _{0.8} Rh _{0.1}	0.140-0.070				963
Ir _{0.135} Os _{0.73} Rh _{0.135}	0.22-0.20				963
Ir _{0.165} Os _{0.67} Rh _{0.165}	0.35-0.25				963

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Ir _{0.18} Os _{0.47} Rh _{0.35}	0.55-0.48				963
Ir _{0.4} Os _{0.3} Rh _{0.3}	0.37-0.28				963
Ir _{0.125} Os _{0.375} Rh _{0.5}	0.46-0.3				963
Ir _{0.725} Os _{0.175} Rh _{0.1}	0.16-0.13				963
Ir _{0.6} Os _{0.2} Rh _{0.2}	0.22-0.15				963
Ir _{0.765} Os _{0.085} Rh _{0.15}	0.096-0.075				963
Ir _{0.55} Os _{0.15} Rh _{0.3}	0.095-0.070				963
Ir _{0.1} Os _{0.3} Rh _{0.6}	0.21-0.15				963
Ir _{0.75} Os _{0.05} Rh _{0.2}	0.055-0.047				963
Ir _{0.6} Os _{0.1} Rh _{0.3}	0.055-0.044				963
Ir _{0.1} Os _{0.25} Rh _{0.65}	0.10-0.07				963
Ir _{0.54} Os _{0.1} Rh _{0.36}	0.038-0.026				963
Ir _{0.125} Os _{0.2} Rh _{0.675}	0.05-0.03				963
Ir _{0.41} Os _{0.17} Rh _{0.42}	0.095-0.080				963
Ir _{0.49} Os _{0.21} Rh _{0.3}	0.27-0.15				963
Ir _{0.56} Os _{0.24} Rh _{0.2}	0.28-0.25				963
Ir _{0.63} Os _{0.27} Rh _{0.1}	0.4-0.3				963
Ir _{0.73} Os _{0.17} Ru _{0.1}	0.34-0.31				963
Ir _{0.825} Os _{0.1} Ru _{0.075}	0.16-0.13				963
Ir _{0.8} Pd _{0.2}				0.015	963
Ir _{0.6} Pd _{0.4}				0.015	963
Ir _{0.3} Pd _{0.7}				0.015	963
Ir _{0.2} Pd _{0.8}				0.015	963
Ir _{0.88} Pd _{0.12}	0.035-0.022				963
Ir _{0.9} Pd _{0.1}	0.032				963
Ir _{0.91} Pd _{0.09}	0.047-0.033				963
Ir _{0.95} Pd _{0.05}	0.050-0.035				963
Ir _{0.96} Pd _{0.04}	0.069-0.057				963

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Ir _{0.1} Pd _{0.9}				0.015	963
Ir _{0.83} Pd _{0.045} Pt _{0.125}	0.037-0.030				963
Ir _{0.2} Pd _{0.2} Rh _{0.6}				0.015	963
Ir _{0.1} Pd _{0.5} Rh _{0.4}				0.015	963
Ir _{0.5} Pd _{0.2} Rh _{0.3}				0.015	963
Ir _{0.25} Pd _{0.5} Rh _{0.25}				0.015	963
Ir _{0.4} Pd _{0.4} Rh _{0.2}				0.015	963
Ir _{0.02} Pt _{0.98}					963#
Ir _{0.04} Pt _{0.96}					963#
Ir _{0.1} Pt _{0.9}					963#
Ir _{0.8} Pt _{0.2}					963#
Ir _{0.8} Pt _{0.2}	0.046-0.032				963
Ir _{0.9} Pt _{0.1}	0.066-0.053				963
Ir _{0.3} Pt _{0.2} Rh _{0.5}				0.015	963
Ir _{0.775} Pt _{0.175} Rh _{0.05}	0.032-0.025				963
Ir _{0.72} Pt _{0.08} Rh _{0.20}	0.030-0.025				963
Ir _{0.7} Re _{0.3}	1.7-1.4				963
Ir _{0.80} Re _{0.20}	0.66				963
Ir _{0.85} Re _{0.15}	0.61-0.445				963
Ir _{0.9} Re _{0.1}	0.34-0.28				963
Ir _{0.93} Re _{0.07}	0.220-0.197				962
Ir _{0.96} Re _{0.04}	0.142-0.130				963
Ir _{0.98} Re _{0.02}	0.112-0.109				963
Ir _{0.4} Re _{0.1} Rh _{0.5}	0.08-0.06				963
Ir _{0.46} Re _{0.115} Rh _{0.425}	0.13-0.1				963
Ir _{0.56} Re _{0.14} Rh _{0.3}	0.25-0.17				963
Ir _{0.64} Re _{0.16} Rh _{0.2}	0.55-0.4				963
Ir _{0.72} Re _{0.18} Rh _{0.1}	0.6-0.5				963

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Ir _{0.9} Rh _{0.1}				0.015	963
Ir _{0.8} Rh _{0.2}				0.015	963
Ir _{0.75} Rh _{0.25}				0.015	963
Ir _{0.5} Rh _{0.5}				0.015	963
Ir _{0.7} Rh _{0.3}				0.015	963
Ir _{0.75} Rh _{0.25}	0.026-0.020				963
Ir _{0.80} Rh _{0.20}	0.03-0.02				963
Ir _{0.815} Rh _{0.185}	0.028				963
Ir _{0.89} Rh _{0.11}	0.06-0.05				963
Ir _{0.95} Rh _{0.05}	0.075-0.055				963
Ir _{0.3} Rh _{0.5} Ru _{0.2}				0.015	963
Ir _{0.2} Rh _{0.5} Ru _{0.3}	0.055-0.045				963
Ir _{0.7} Rh _{0.5} Ru _{0.25}	0.033-0.028				963
Ir _{0.7} Rh _{0.2} Ru _{0.1}	0.05-0.04				963
Ir _{0.8} Rh _{0.15} Ru _{0.05}	0.064				963
Ir _{0.3} Rh _{0.5} Ru _{0.2}	0.02-0.01				963
Ir _{0.8} Ru _{0.2}	0.13				963
Ir _{0.765} Ru _{0.235}	0.14				963
Ir _{0.71} Ru _{0.29}	0.18		A1		963
Ir _{0.845} Ru _{0.155}	0.11				963
Ir _{0.89} Ru _{0.11}	0.105				963
Ir _{0.925} Ru _{0.075}	0.11				963
Ir _{0.9} Ta _{0.1}	0.067-0.050		A1		963
Ir _{0.925} Ta _{0.075}	0.125-0.11				963
Ir _{0.94} Ta _{0.06}	0.150				963
Ir _{0.97} Ta _{0.03}	0.127				963
Ir _{0.99} Ta _{0.01}	0.116-0.096				963
Ir _{0.10} Ti _{0.90}	4.3		Cub.		717
Ir _{0.04} Ti _{0.96}	1.6		Cub.		717
Ir _{0-0.135} Ti _{1-0.865}	3.9 max.				717

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Ir Ti ₃	4.63		A15		707
Ir Ti ₃ (as cast)	4.18		A15		707
Ir _{0.37} V _{0.63}	1.71		A15		948#
Ir _{0.31} V _{0.69}	0.91		A15		948#
Ir _{0.25} V _{0.75}			A15	0.015	948#
Ir V ₃			A15	0.015	707
Ir _{0.85} V _{0.15}	0.26-0.123				963
Ir _{0.965} V _{0.035}	0.147-0.135				963
Ir _{0.98} V _{0.02}	0.115-0.082				963
Ir _{0.99} V _{0.01}	0.11-0.086				963
Ir _{0.85} W _{0.15}	0.41-0.25				963
Ir _{0.9} W _{0.1}	0.23-0.20				963#
Ir _{0.953} W _{0.047}	0.162-0.147				963
Ir _{0.973} W _{0.027}	0.125-0.123				963
Ir _{0.987} W _{0.013}	0.107-0.105				963
Ir _{0-0.1} Zr _{1-0.9}	Max., 5.4, 3.3				717
K _{0.1} O ₃ Sr _{0.9} Ta _{0.1} Ti _{0.9} (n=0.48 x 10 ²⁰)				0.051	770
La	<4.8-5.78				764
La	4.88	808	A1		747
La (95% Hex. Phase)	4.9		Hex.		806#
La (95% Cub. Phase)	6.0		A1		806#
La		HF			925
La (with SiO ₂ and Nb)	4.9-1				923
La (0-17 kbar)	4.88-6.8		Hex.		1016
La	4.90				915
La	4.5		Hex.		812
La	5.6		A1		812#
La	4.9		Hex.		808#
La (23-40 kbar)	8.2-9.2		A1		729#

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
La (1-23 kbar)	5.2-8.2		Hex.		729
La (0~140 kbar)	5.9-11.93				1016
La _{0.01} O ₃ Sr _{0.99} Ti	(n = 3.1 x 10 ²⁰)			0.078	770
La In ₃	0.71		L1 ₂		768#
La Pb ₃	4.07		L1 ₂		768#
La Pb ₃	4.10		L1 ₂		715
La _{1-x} Pb ₃ Pr _x	4.07-<0.3		L1 ₂		768#
La Pb _{3(1-x)} Sn _{3x}	Max.6.0, Min.3.5		L1 ₂		715
La _{1-x} Pb ₃ Th _x	Max.4.2, 5.6		L1 ₂		715
La Pb _{3x} Tl _{3(1-x)}			L1 ₂		715
La _{1-x} Pr _x Tl ₃	1.51-0.55		L1 ₂		768
La Ru	4.1		C15		1026
La S					730
La ₃ S ₄	8.25		D7 ₃		730
La ₃ Se ₄					770
La Si ₂	2.3		C _c		808#
La ₅ Sn ₃				1.4	863
La Sn ₃	6.55		L1 ₂		768#
La Sn ₃	6.02		L1 ₂		715
La _{1-x} Sn ₃ Pr _x	6.55-<0.3		L1 ₂		768
La _{1-x} Sn ₃ Th _x	6.3 max.		L1 ₂		715
La _{1-x} Sn ₃ Tm _x	6.55-4.2		L1 ₂		768
La ₃ Te ₄	3.75, 2.45	HF	D7 ₃		1024
La Tl ₃	1.51		L1 ₂		768#
La Tl ₃	1.63		L1 ₂		715
La Tl _{3(1-x)} Sn _{3x}	Max. 1.8, 6.0		L1 ₂		715
La _{0.15} Y _{0.85}	0.1		Hex.		808#
La _{0.35} Y _{0.65}	0.4		Hex.		808#
La _{0.48} Y _{0.52}	1.0		Rhomb.		808#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$La_{0.60}Y_{0.40}$	1.3		Hex.		808#
$La_{0.75}Y_{0.25}$	2.0		Hex.		308#
$La_{0.85}Y_{0.15}$	2.7		Hex.		308#
Li				0.006	887#
Mg				0.006	887#
Mn_xPb_{1-x}					748 ^v
$Mn_{0.20}Ru_{0.80}$					788#
Mn_xTi_{1-x}				1.2	759#
$Mn_{0.14}Ti_{0.86}$	2.55				759#
$Mn_{0.002}Ti_{0.499}Zr_{0.499}$				1.24	759
$Mn_{0.0043}Zn_{0.9957}$					1030
$Mn U_6$	2.4				920
Mo	0.916	86			1031
Mo (with SiO_2 and Y)	1.7-6.5-<1		A2		923
Mo (at 4.2 K)	4-6.7,<2.5				921 ^v
Mo	0.91				788
Mo	0.49				972#
Mo N	12.0				815
Mo_2N	5.0				815
Mo_xNb_{1-x}	9.22-4.4				885
$Mo_{0-1}Nb_{1-0}$					811#
Mo_xNb_{1-x}	$t = 0.03$	HF	A2		441
$Mo_{0.725}Nb_{0.061}Re_{0.187}$	5.0	HF			881
Mo_3Os	11.76		A15		707
Mo_3Os	11.68		A15		707
$Mo_{0.45-0}Pt_{0.55-1}$			Cub.	1.0	845
$Mo_{0.55-0.47}Pt_{0.45-0.53}$			Ortho.	1.0	845
$Mo_{0.65-0.49}Pt_{0.35-0.51}$			Hex.	1.0	845
$Mo_{0.62-0.48}Pt_{0.38-0.52}$			Hex.	1.0	845

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Mo _{0.72} Pt _{0.28}	4.3-5.6		A15		845
Mo _{0-0.12} Pt _{1-0.88}			Cub	1.0	845
Mo ₄ Pt	4.53		A15		707
Mo _{0.85} Pt _{0.15}	4.59		A15		707
Mo ₄ Pt	4.56		A15		707
Mo Pt ₂			Ortho.	1.0	845
Mo _{0.815} Re _{0.185}	8.27	HF			881
Mo _{0.865} Re _{0.135}	6.1	HF			881
Mo _{0.57} Re _{0.43}	14.0				592
Mo _{0.16} Ti _{0.84}	4.246	HF			805#
Mo _{0-0.05} Ti _{1-0.95}	<1.5-3.0				931#
Mo _{0-0.25} Ti _{1-0.75}	2.1-3.9-3.6				929
Mo _{0.16} Ti _{0.84}	4.10				740#
Mo _{0.006} U _{0.994} (0-11 kbar)	1.20, 1.46				879#
Mo _{0.03} U _{0.97}	1.02 ₅ , 1.00 ₇				879#
Mo _{0.05} U _{0.95}	0.382				879#
Mo _{0.07} U _{0.93}	0.827				879#
Mo _{0.003} U _{0.997} (0, 9 kbar)	1.2, ~1.64				879#
Mo _x V _{1-x}			A2		441
Mo _{0.5} V _{0.5}	0.11				788#
Mo _{0.30} V _{0.70}	0.76				788#
Mo _{0.15} V _{0.85}	2.28				788#
Mo _{0.03-0.41} Zr _{0.97-0.59}	2.2-5.3-4.5		Cub.		956
Mo ₂ Zr	4.6				956
Mo ₂ Zr			C15	0.35	956
N _x Nb _{1-x} (Grain size, 100-280A)	6-17.3				819 [∇]
N Nb		HF			873
N _{0.93} Nb	15.85	HF	B1		880#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$N_{0.92}Nb$	16.30	HF	B1		880#
$N_{0.0023}Nb_{0.998}$	9.20				771 ∇
N Nb (2800, 5700A)	12.8, 11.9				941 ∇
N Nb	15.0				815
N Nb ₂	9.5				815
$N_{0.91}Nb_{0.99}Ta_{0.01}$	15.62	HF	B1		880#
$N_{0.91}Nb_{0.974}Ta_{0.026}$	15.09	HF	B1		880#
$N_{0.92}Nb_{0.946}Ta_{0.054}$	14.41	HF	B1		880#
$N_{0.91}Nb_{0.82}Ta_{0.18}$	10.9	HF	B1		880#
N Nb Ti		HF			839 ∇
$N_{0.85}Nb_{0.66}Ti_{0.34}$	17.61	HF	B1		880#
$N_{0.88}Nb_{0.256}Ti_{0.744}$	14.72	HF	B1		880#
$N_{0.90}Nb_{0.114}Ti_{0.886}$	10.1	HF	B1		880#
N Nb Zr		HF			839 ∇
$N_{0.74}Nb_{0.9}Zr_{0.1}$	14.42	HF	B1		880#
$N_{0.76}Nb_{0.85}Zr_{0.15}$	14.16	HF	B1		880#
$N_{0.85}Nb_{0.75}Zr_{0.25}$	12.96	HF	B1		880#
$N_{0.73}Nb_{0.95}Zr_{0.05}$	15.42	HF	B1		880#
N Ta ₂				4.2	906
N Ta	6.5 $\pm$ 0.5		B1		906
N Ta			B _h	4.2	906
Na Pb ₃	5.62		L1 ₂		715
Nb (270A)	9.1	HF			719 ∇
Nb	9.1	HF			995
Nb	9.18	2040			722
Nb	9.20 $\pm$ 0.03	HF			994
Nb	9.2				819 ∇
Nb	9.20	HF			994
Nb	9.20				721#
Nb	9.23				864#
Nb	9.23	HF			928#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Nb	0.23	2040			722
Nb	9.25 ± 0.01	1970			743
Nb	9.28				913
Nb (245A)	9.3	HF			719 ^V
Nb	9.4				1002 [#]
Nb	9.4 ₆				771
Nb	9.45				1017
Nb					727
Nb					720 [#]
Nb		HF			895
Nb		HF			1021
Nb		HF			751
Nb (irradiated)		HF			832
Nb		HF			827
Nb (foils)		HF			883
Nb (4.2 K) (250, 400A)	6.2-8.1				921 ^V
Nb (300-7500A)	6.4-9	HF			913 ^V
Nb (37,000A)	10.0	HF			719 ^V
Nb _{1-x} O _x	$t = 0.58$	HF			441
Nb _{0.993} O _{0.007}	8.7	HF			771
Nb _{0.9916} O _{0.0084}					772
Nb _{0.936} O _{0.064}	~9	HF			771
Nb O (200 ppm)					771
Nb O					771
Nb _{0.985} O _{0.0152}	8.0 ₄	HF			771
Nb _{1-x} O _x		HF			944
Nb ₃ Os	0.94		A15		1023
Nb ₃ Os	0.94	HF	A15		707
Nb ₃ Os	~0.5		A15		922 [#]
Nb P S	7.5-12.5		Ortho.		892
Nb P Se			Ortho.	1.25	892
Nb Pb S ₃	2.62		Tet.		778 [#]

Material	T _c (K)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Nb _{0.67} Pb S ₃	2.01, 2.00		Tet.		795#
Nb Pb S ₃	2.66		Tet.		795#
Nb _{1-x} Pb S ₃ Ta _x	2.7-2.0-3.3				795
Nb _{0.9} Pd _{0.1}	3.5				592
Nb _{0.9} Pt _{0.1}	2.5				592
Nb ₃ Pt	9.8		A15		922#
Nb ₃ Pt	8.18		A15		707
Nb _{0.9} Re _{0.1}	4.5				592
Nb _{0.9} Rh _{0.1}	2.8				592
Nb S ₂	6.0				1027
Nb S ₂					810#
Nb S ₂	5.99, 6.15-5.83		Hex.		778
Nb S ₂	5.4, 5.5				796#
Nb ₃ Sb			A15	0.4	801
Nb Sb ₂				1.15	711
Nb _{0.83} Sb _{0.17}	1.95, 2.0		A15		1002#
Nb _{0.9-0.7} Sb _{0.1-0.3}	5.8-<0.5		A15		1002
Nb ₃ Sb _x Sn _{1-x}	18.05-16.25		A15		947
Nb _{0.50} Sb _{0.25} Ti _{0.25}	3.05		A15		1002#
Nb _{0.25} Sb _{0.25} Ti _{0.50}	1.95, 2.05		A15		1002#
Nb _{~4-0} Sb Ti ₀₋₃ (Quenched) (Annealed)	5.3-2-3-1.95 6.5-1.8-3.1-2		A15		1002#
Nb Se ₂	6.9				796#
Nb _{0.339} Se _{0.661}	6.1	HF			996
Nb _{0.338} Se _{0.662}	6.75	HF			996
Nb Se ₂	7.0	HF			996
Nb Se ₂					992
Nb Se _{2(1-x)} Te _{2x}	0.74-2.7				992
Nb Se _{2(1-x)} Te _{2x}	7-7.18-3.0				992
Nb Se _{2(1-x)} Te _{2x}					992

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Nb ₃ Sn (Fe ₂ Mn _{0.5} Zn _{0.5} O ₄)	14.7-17.0				831
Nb ₃ Sn (Al ₂ O ₃ Powder)	17.7-18.1				831
Nb ₃ Sn (Diffusion layer)	18.1	HF			877
Nb ₃ Sn (Core wire)	18.04	HF	A15		880#
Nb ₃ Sn (Clad)	18.00	HF	A15		880#
Nb ₃ Sn (Multiwire)	18.21	HF	A15		880
Nb Sn ₂	2.68				964
Nb ₆ Sn ₅	2.07				964
Nb ₃ Sn	18.0	HF	A15		787
Nb ₃ Sn			A15		816
Nb ₃ Sn					970
Nb ₃ Sn(0-22,500 kg/cm ²)	17.5-14.3				977
Nb _{2.85} Sn Zr _{0.15}	18.07	HF	A15		880
Nb _{2.79} Sn Zr _{0.21} (Clad)	17.98	HF	A15		880
Nb _{2.70} Sn Zr _{0.30}	18.01	HF	A15		880
Nb _{1-x} Ta _x					834
Nb _{1-0.803} Ta _{0-0.197}	9.25-7				833
Nb _{0.803} Ta _{0.197}	7.50				864#
Nb _{0.9378} Ta _{0.0622}	8.42	HF			864#
Nb _{0.9575} Ta _{0.0425}	8.55	HF			864#
Nb _{0.9844} Ta _{0.0156}	8.76	HF			864#
Nb _{0.9913} Ta _{0.0087}	8.87	HF			864#
Nb ₁₋₀ Ta ₀₋₁	9.18-4.33	HF			940#
Nb _{0.96} Ta _{0.04}	8.87	HF			928#
Nb _{1-0.6} Ta _{0-0.4}	9.23-6.56	HF			928#
Nb _{0.87} Ta _{0.13}	8.15	HF	B2		911
Nb _{0.79} Ta _{0.21} (Clad)	7.51	HF	B2		911
Nb _{0.67} Ta _{0.33}	6.81	HF	B2		911

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Nb _{0.54} Ta _{0.46}	6.25	HF	B2		911
Nb _{0.37} Ta _{0.63}	5.31	HF	B2		911
Nb _{0.17} Ta _{0.83}	4.65	HF	B2		911
Nb _{0.95} Ta _{0.05}	8.58		B2		911
Nb _{0.44} Ta _{0.56}	5.85		B2		911
Nb _{0.29} Ta _{0.71}	4.94		B2		911
Nb _{0.08} Ta _{0.92}	4.38		B2		911
Nb _{1-x} Ta _x		HF	A2		441
Nb _{0.5} Ta _{0.5}	6.25	1220			722
Nb _{~0.04} Ta _{~0.96}					981
Nb Ta Ti					860
Nb Te ₂ (Solid)	0.50-0.74				797
(Vapor transport)	0.60-0.66				
Nb Te ₂	0.6				796#
Nb ₃ Te ₄	1.49				711
Nb Te ₂					992
Nb _{0.55} Ti _{0.45}	9.4	HF			830
Nb _{0.4} Ti _{0.6}		HF			830
Nb _{0.22} Ti _{0.78}	7.8	HF			991
Nb _{0.22} Ti _{0.78}	7.5	HF			991
Nb _{0.36} Ti _{0.64}					991
Nb _{0.56} Ti _{0.44}					818
Nb _{66w7o} Ti _{33w7o} (Impurities)	10.3				841
Nb _{50w7o} Ti _{50w7o}	9.3				841
Nb _{0.44} Ti _{0.56}	8.99	HF			374
Nb _{1-x} Ti _x	9.22-10.02-7.6				885
Nb _{0.75} Ti _{0.25}	10.02				885
Nb _{0.6} Ti _{0.4}	9.8 max.				592
Nb _{0.25-1} Ti _{0.75-0}	7.2-9.7-9.2		Cub.		901

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Nb _{0.26} Ti _{0.74} (as cast)	8.15-7.31				965
Nb _{0.20} Ti _{0.80} (as cast)	6.6-6.15	HF			965
Nb _{1-x} Ti _x	t, 1-0.98-1.0	HF	A2		441
Nb _{0.63} Ti _{0.37}	9.2				725
Nb _{0.44} Ti _{0.56}	9.0				725
Nb _{0.25} Ti _{0.75}	5.8-7				999#
Nb _{0.22} Ti _{0.78}	7.72				993
Nb _{0.22} Ti _{0.78}	6.92				993
Nb _{0.48} Ti _{0.52}		HF			968
Nb _{0.33} Ti _{0.67}		HF			968
Nb _{0.75} Ti _{0.15} Zr _{0.10}	9.7	HF			830
Nb _{0.62} Ti _{0.14} Zr _{0.24}	9.6				830
Nb _{0.41} Ti _{0.23} Zr _{0.36}					830
Nb _{0.53} Ti _{0.18} Zr _{0.29}	9.1				830
Nb _{0.57} Ti _{0.33} Zr _{0.10}	9.6				830
Nb _{0.62} Ti _{0.14} Zr _{0.24}	9.7	HF			830
Nb _{0.35} Ti _{0.15} Zr _{0.50}	8.6	HF			830
Nb _{0.43} Ti _{0.27} Zr _{0.30}	8.6	HF			830
Nb _{0.48} Ti _{0.30} Zr _{0.22}	8.9	HF			830
Nb _{0.47} Ti _{0.48} Zr _{0.05}	8.7	HF			830
Nb _{0.52} Ti _{0.16} Zr _{0.32}	9.4	HF			830
Nb _{0.65} Ti _{0.15} Zr _{0.20}	9.8	HF			830
Nb _{0.41} Ti _{0.15} Zr _{0.44}	8.7	HF			830
Nb _{0.36} Ti _{0.56} Zr _{0.08}	10.05				965
Nb _{0.19} Ti _{0.51} Zr _{0.30}	10.05	HF			965
Nb _{0.19} Ti _{0.74} Zr _{0.07}	9.1	HF			965
Nb _{0.22} Ti _{0.25} Zr _{0.53}	9.30	HF			965
Nb _{0.21} Ti _{0.61} Zr _{0.18}	7.21				965

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
Nb _{1-x} V _x	t, 0.47		A2		441
Nb _{1-x} W _x	t, 0.25	HF	A2		441
Nb ₀₋₁ Zr ₁₋₀		HF			847
Nb _{0.06-0.88} Zr _{0.94-0.12}	10-10.5				847
Nb _{0.0125-0.6} Zr _{0.9875-0.94}	3.2-10.0				847
Nb _{0-0.0125} Zr _{1-0.9875}	1.2-3.2		A3		847
Nb _{1-x} Zr _x	9.22-10.98-8.7				885
Nb _{0.65} Zr _{0.35}	10.98				885
Nb _{1-0.75} Zr _{0-0.25}	t, 1.20	HF	A2		441
Nb Zr	10.8	HF			739
Nb Zr (0-3.8 katm)	T _c ↑				970
Nb _{0.25} Zr _{0.75}	10.45 max.				971
Nb _{0.20} Zr _{0.80}	8.5 max.				971
Nb _{0.75} Zr _{0.25}		HF			975
Nb _{0.20} Zr _{0.80}		HF			991
Ni U ₆	0.41				920
Ni _{0.20} V _{0.80}	0.57		A15		707
Ni _{0.20} V _{0.80}	0.57		A15		1023
Ni _{0.22} V _{0.78}	0.35		A15		948#
Ni _{0.225} V _{0.775}	0.30		A15		1023
Ni _{0.225} V _{0.775}	0.30		A15		707
Ni _{0.175} V _{0.825}	0.78		A15		1023
Ni _{0.175} V _{0.825}	0.78		A15		707
Ni Zr ₂	1.6		C16		914
O ₃ Nb Sr(n=2.7 x 10 ²¹)				0.044	770
O ₃ Sr Ti(n=2.2 x 10 ²⁰)	0.30				884
O ₃ Sr Ti(n=2.5 x 10 ¹⁹)	0.27				884
O ₃ Sr Ti(n=6.3 x 10 ¹⁹)	0.27				884

Material	T _c (K)	H _o (oersteds)	Crystal Structure	T _n	Ref.
O ₃ Sr Ti(n=2.7 x 10 ¹⁹)	0.24				884
O ₃ Sr Ti(n=2.5 x 10 ¹⁹)	0.185				884
O ₃ Sr Ti(n=0.13-2.2 x 10 ²⁰)	<0.08-0.4-0.3				935
O ₃ Sr Ti		HF			770
O ₃ Sr Ti(n=6.9 x 10 ¹⁸ to 5.5 x 10 ²⁰)	<0.05-0.295				709
O ₃ Sr Ti(n=1.7-23 x 10 ¹⁹)	0.10-0.30	HF			1005
O _x Ta _{1-x}	t, 0.72				441
O _{1-x} Ti _{1-x} □ _x (0-90 kbar)	0.6-2.3		B1		835
O Ti	2.3				835
O _x V _{1-x}	t, 0.35				441
Os					963#
Os	0.67				972#
Os _{0-0.12} Re _{1-0.88} (0-20 kbar)	1.694-1.93-1.79				952
Os _{0.055} Re _{0.945}	1.93				952
Os _{0.2} Rh _{0.8}				0.015	963
Os _{0.5} V _{0.5}	5.15		A15		948#
Os _{0.55} V _{0.45}	5.04		A15		707
Os _{0.20-0.33} Zr _{0.80-0.67}	4.1-<2				955
Os _{0.267} Zr _{0.733}			Cub.	1.2	955
P (>100 kbar)	4.7,5.3,6.1				775
P (170 kbar)	5.8	HF			786
P S Ta			Ortho.	1.25	892
P _{2.65} Sn ₄ (n=2.2 x 10 ²²)	1.24-1.10				930
Pb		HF			752 [∇]
Pb					821 [∇]
Pb	~7.1				837 [∇]
Pb (3600A.)	7.7				941 [∇]
Pb (0, 3.445 kbar)	7.24, 7.11				926
Pb (II) (160 kbar)	3.6				904
Pb (0-110 kbar)	7.2-4.2				904

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Pb (II) (160 kbar)	3.55				780
Pb					773 [▽]
Pb (2500-7000A)					735 [▽]
Pb (2000-6760A)		HF			985 [▽]
Pb Pt	7.2-~1.5				756 [▽]
Pb S_3Ta	3.07		Tet.		778
Pb S_3Ta	3.11, 3.07		Tet.		778#
Pb S_3Ti			Tet.	0.05	778#
Pb S_3Ti				0.05	795
Pb _{1-x} Sb _x	$T'_c(+0.52)$				861
Pb _{1-x} Sn _x	$T'_c(+0.08)$				861
Pb _{0.10-0.18} Sn _{0.90-0.82}	5.6-7.2				900
Pb ₃ Sr	1.85		Tet.		715
Pb Te ($n=5.0 \times 10^{20}$)				0.009	770
Pb ₃ Th	5.55		L1 ₂		715
Pb _{1-x} Tl _x	$T'_c(-0.15)$				861
Pb _{0.965} Tl _{0.035} (0,3 katm)		HF			919
Pb Tl					798 [▽]
Pb ₁₋₀ Tl ₀₋₁	7.22-<1.24-2.67				736
Pb _{0.99} Tl _{0.01}		820, HF			979
Pb V ₃			A15	4.2	825
Pb ₃ Y	4.72		L1 ₂		715
Pb ₃ Yb	0.23 ± 0.10		L1 ₂		715
Pd					963
Pd					963#
Pd _{0.4} Pt _{0.1} Rh _{0.5}				0.015	963
Pd _{0.25} Pt _{0.25} Rh _{0.5}				0.015	963
Pd _{0.75} Rh _{0.25}				0.015	963
Pd _{0.5} Rh _{0.5}				0.015	963

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Pd Rh _{0.509}					963#
Pd Rh _{0.409}					963#
Pd Rh _{0.308}					963#
Pd Rh _{0.015}					963#
Pd Rh _{0.104}					963#
Pd Rh _{0.0537}					963#
Pd _{0.51} Sb _{0.49} (with <0.01 of twelve elements)	1.67-0.3				950#
Pd _{0.49-0.52} Sb _{0.51-0.48}	1.67-1.44				950#
Pd Te ₂	1.45				1027
Pd Th				1.15	711
Pd _{0.25} V _{0.75}	0.08		A15		948#
Pd V ₃	0.082		A15		707
Pd V ₃			A15	0.35	980
Pd V ₃	0.08		A15		1023
Pd _{1-0.75} W _{0-0.25}			A1	0.2	846
Pd _{0.74-0.56} W _{0.26-0.44}	0.1-1.6		A1		846
Pr _x Th _{1-x}	1.37-0.3		Cub.		768
Pt					756 ^v
Pt					963
Pt					963#
Pt _{0.2} Rh _{0.8}				0.015	963
Pt Sb ₂ (n=3.7 x 10 ²⁰)				0.037	770
Pt _{0.15} Ta _{0.85}	0.40		A15		1023
Pt Ti ₃	0.48	HF	A15		707
Pt ₈ Ti				1.15	711
Pt _{0.46} U _{0.54}				0.3	1018
Pt _{0.222} V _{0.778}	0.98		A15		948#
Pt _{0.25} V _{0.75}	3.20		A15		948#
Pt _{0.28} V _{0.72}	1.50		A15		948#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Pt V_3 (as cast)	2.53		A15		707
Pt V_3 (800°C/1 hr.)	2.86		A15		707
Pt V_3 (1100°C/120hr./quenched)	3.19		A15		707
Pt V_3	2.61		A15		707
Pt _{0.29} V _{0.71}			A15	1.086	707
Pt _{0.27} V _{0.73}	1.72		A15		707
Pt _{0.25} V _{0.75}	3.27		A15		707
Pt _{0.23} V _{0.77}	3.25, 2.75		A15		707
Pt _{0.21} V _{0.79} (probably filaments)	1.76		A15		707
Pt _{1-0.73} W _{0-0.27}			A1	0.2	846
Pt _{0.72-0.33} W _{0.28-0.67}	0.2-3.0		A1		846
Rb (0~150 kbar)				1.2	781
Re	1.694				952
Re	1.70				972#
Re Se ₂				1.15	711
Re Si ₂				1.15	712
Re _{0.2} Ta _{0.8}	0.21				713#
Re _{0.15} Ta _{0.85}	0.75				713#
Re _{0.1} Ta _{0.9}	1.49	232			713#
Re _{0.075} Ta _{0.925}	2.08	342			713#
Re _{0.05} Ta _{0.95}	2.77	460			713#
Re _{0.025} Ta _{0.975}	3.458	613			713#
Re _{0.3} Ta _{0.7}				0.06	713#
Re _{0.25} Ta _{0.75}				0.06	713#
Re _{0.4} Ta _{0.6}				Probably <0.06	713#
Re ₂ Th	5.05				711
Rh					963#

Material	T_h (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Rh_{1-x}Ru_xSe_2$	4.5-<0.050				714#
$Rh_{0.005-0.03}Ti_{0.995-0.97}$	1.8-3.2		A3		766
$Rh_{0.88}Ti_{0.12}$	4.0		Cub.		766
$Rh_{0.04}Ti_{0.96}$	2.0		Cub.		766
$Rh_{0.04}Ti_{0.96}$	2.0		Cub.		717
$Rh_{0.12}Ti_{0.88}$	4.0		Cub.		717
$Rh_{0-0.135}Ti_{1-0.865}$	4.3 max.				717
$Rh_{0.25}V_{0.75}$			A15	0.015	948#
$Rh V_3$			A15	0.015	707
$Rh V_3$			A15	2.0	1001
$Rh Zr_3$	11.0		E9 ₃		766
$Rh_{0.005-0.027}Zr_{0.995-0.973}$	3.5-4.8		A3		766
$Rh_{0.035-0.09}Zr_{0.965-0.91}$	5.0-11.0		Cub.		766
$Rh_{0.12}Zr_{0.88}$	11.0		Cub.		766
Ru	0.48				920
Ru	0.493 ± 0.0015				816
Ru	0.47				972#
Ru Sb	1.27				711
Ru_2Sc	2.24		C15		1026
Ru_2Y	2.42		C15		1026
S_2Ta	0.7		Hex.		1027
S_2Ta	1.6, 1.5				796#
S_2Ta	1.90, 1.99-1.82		Hex.		778
S_2Ta (Solid)	1.3-2.1				797
(Vapor transport)	0.6-0.8				
$S V_3$				1.15	711
Sb (III) (93 kbar)	3.52				902
Sb (85 kbar)	3.55				774
Sb_xSn_{1-x}	$T_c' (-0.034)$				817
$Sb Ta_3$	0.72-0.59		A15		1015
$Sb Te$ ($n=5.0 \times 10^{20}$)				0.051	770

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
$Sb_{0.12-0.31}Ti_{0.88-0.69}$ (Quenched)	2.3-5.3-4.4		A15		1002
Sb_xTi_{1-x} (Annealed)	2.0-6.5-5.8		A15		1002
$Sb_{0.25}Ti_{0.75}$ (Annealed)	6.5, 5.7		A15		1002#
$Sb_{0.25}Ti_{0.75}$	5.3, 5.0		A15		1002#
$SbTi_{0-3}V_{3-0}$ (Quenched) (Annealed)	6.5-0.8 5.3-0.8		A15		1002
Sb_xTi_{1-x}	$T_c' (+0.21)$		Hex.		858
$Sb_{0.25}V_{0.75}$			A15	1.0	1002#
Sc				0.032	744#
$Sc_{0.01}Zr_{0.99}$	0.32-0.25, 0.17-0.12				744#
$Sc_{0.05}Zr_{0.95}$	0.11-0.08				744#
$Sc_{0.07}Zr_{0.93}$	0.08-0.04				744#
$Sc_{0.1}Zr_{0.9}$				0.024	744#
$Sc_{0.15}Zr_{0.85}$				0.036	744#
$Sc_{0.2}Zr_{0.8}$				0.036	744#
$Sc_{0.25}Zr_{0.75}$				?	744#
$Sc_{0.4}Zr_{0.6}$				0.04	744#
$Sc_{0.5}Zr_{0.5}$				0.022	744#
$Sc_{0.8}Zr_{0.2}$				?	744#
Se_4Nb_3	1.61				711
Se_2Ta	0.2				1027
Se_2Ta	0.13-0.15				797
Se_2Ta	0.16-0.22				797
Se_2Ta	0.2				796#
Se_2V_{1+x}				0.05	797
Si_2Sr			Cub.	0.32	961
Si_3Sr_2	~0.55		C_c		961
Si_2Th_3			Tet.	0.1	927

Material	T _c (H)	H ₀ (oersteds)	Crystal Structure	T _n	Ref.
Si ₂ U ₃			Tet.	0.1	927
Si V ₃	16.9	HF			877
Si V ₃ (Wire core)	16.86	HF	A15		880#
Si V ₃	14.5		A15		890
Si V ₃	16.8	HF	A15		787
Si V ₃	14.85~16.6	HF			716 [∇]
Si _{0.25} V _{0.75}	17.01		A15		707
Si _{0.20} V _{0.80}	7.51		A15		707
Si _{0.30} V _{0.70}	16.95		A15		707
Si _{0.25} V _{0.75}	16.65		A15		707
Si V ₃ (Polycrystalline)	16.83		A15		1013
Si V ₃ (Single crystal)	16.85		A15		1013
Si Y				1.15	711
Si _{1.90} Y			C _c	0.1	808#
Si ₂ Zr ₃			Tet.	0.1	927
Sn (11,000A)					757 [∇]
Sn					749#
Sn (1000-27,000A)		HF			750 [∇]
Sn (0-31.6 katm)	3.733	306			829
Sn (Up to ~200A)	~6 max.				837 [∇]
Sn (850,1580,3420A)	3.794,3.847,3.840				862 [∇]
Sn (III) (P=113 kbar)	5.30				780
Sn	3.724				804
Sn (II) (240, 270 kbar)		400,375			785
Sn (II)(125 kbar,160 kbar)	5.2, 4.85				785
Sn		305 ± 5			785
Sn					814#
Sn (1400A)	3.84	HF			723 [∇]
Sn (1950A)	3.87	HF			723 [∇]
Sn (2600A)	3.92	HF			723
Sn (Plus Au, Cu)					734 [∇]

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Sn (Whiskers, strained)	$T'_c(+0.45)$				974
Sn Te		HF			770
$Sn_{0.975}Te_{1.000}$					813#
Sn Te ($n=7.5-20 \times 10^{20}$)	0.34-0.214	HF			1022
Sn_3Th	3.33		$L1_2$		715
$Sn_{0.65}Tl_{0.35}$	6-7.1	HF			900
Sn_3V_2				1.15	711
Sn_3Y_5				1.4	863
Sn_3Y_5				1.15	711
Sn Y_2				1.15	711
$Sn_{0.91}Zn_{0.09}$ (Laminar Structure)	3.668-3.722				726
Sn Zr_4	0.92-0.79		$A15$		1015
Sr				1.2	781
Ta	4.31		$B2$		911
Ta	4.463	831			713#
Ta (300,9850,1640A)	3.16,4.15,4.8	HF			719 ∇
Ta Te_2				0.05	797
Ta Te_2				0.05	796#
$Ta_{0.52}Ti_{0.48}$	7.86	HF			874
$Ta_{1-x}Ti_x$			$A2$		441
Ta_xV_{1-x}			$A2$		441
$Ta_{1-x}W_x$	t, 0.12		$A2$		441
$Ta_{1-x}Zr_x$		HF	$A2$		441
Tc (0-15 kbar data given)	$8.00 \pm 0.01, \left. \begin{matrix} 7.924 \pm 0.01 \end{matrix} \right\} P=0$				836
Tc	7.79 ± 0.02				712
Tc	7.73				712
Te (III) (70 kbar)	4.28				909
Te (II) (43 kbar) ($n=1-4 \times 10^{18}$)	2.05				909
Te (IV) (84 kbar)	4.3				909
Te_3Tl_5					849

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
Te_3Tl_5 ($n > 2 \times 10^{21}$)	2.20, 2.14	HF	Cub.		848
Te_2V_{1+x}				0.05	797
Th	1.374 ± 0.001				802#
Th					791
Th Tl_3	0.87		$L1_2$		715
$Th_{1-x}Tm_x$	1.37-0.67				768
$Th_{1-x}U_x$	1.36-0.068				951
Ti			A3		759#
Ti (0-25 katm, $T_c \uparrow$)					997
Ti	0.39				1002#
Ti_4Tl			A15	0.35	980
$Ti_{0.80}V_{0.20}$	3.65-3.37				838
$Ti_{0.6}V_{0.4}$	7.0	HF			878
$Ti_{0.42}V_{0.58}$	7.52	HF			874
Ti_xV_{1-x}	5.2-7.5	HF	A2		441#
$Ti_{0.5}Zr_{0.5}$	1.60		A3		759#
Tl		179 ± 5	A1		760
Tl (0-27 katm)	$T_c' (+0.02-0.25)$				998
Tl V_3			A15	4.2	825
Tl_3Y	1.52		$L1_2$		715
Tl Zr_4			A15	0.35	980
U (0-12 kbar)	1.2-2.1				879
U				0.6	802#
U (10 kbar)	2.3				724
U	1.0-0.5				724
V	4.68	HF			917#
V	5.06	HF			917#
V	5.17	HF			917#
V	5.31				788#
V					727
V	5.379				742#
V	5.414 ± 0.01				742#

Material	T_c (K)	H_o (oersteds)	Crystal Structure	T_n	Ref.
V	5.30				1002#
$V_{26W}Zr_{74}O$	≈ 5.9	HF			678
$V_{0.4}Zr_{0.6}$	~ 7.8	HF			889
$V_{0.6}Zr_{0.4}$	8.3				889
$V_{0.1-0.9}Zr_{0.9-0.1}$	6.5-8.3-7.6	HF			889
W	0.0154	1.14			840#
W	0.0154	1.15			882#
W	0.0154	1.15			887#
W	~ 3				921 ^v
W_xZr_{1-x}	2.9-3.9-2.0		Cub.		956
W_2Zr	2.2-2.7				956
W_2Zr			C15	0.35	956
Y				0.006	781
Y (120-170 kbar)	$\sim 1.2 \sim 2.7$				781
Y (~ 160 kbar)	~ 2.7				781
Y					812#
Y	0.08		A3		808#
Zn (0-26.2 katm)	$\sqrt{0.76} - \sqrt{0.11}$	55-19			829
Zn					820#
Zn	~ 1.9 max.				837 ^v
Zn (Isotope study)	0.85				1000
Zn_2Zr (Ta impurity)			C15	0.1	741
Zr	0.53-0.51, 0.52-0.51				744#
Zr (Isotope study)	0.487				972#
Zr	~ 1.5 (Extrap.)	Pseudo BCC			956

HIGH MAGNETIC FIELD SUPERCONDUCTIVE MATERIALS
AND SOME OF THEIR PROPERTIES

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.)

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
Al				H_1/H_c given			888 ^v
Al ₂ C Mo ₃	9.2			101		4.2	966
Al _{3-x} Gd _x La	2.2-6.16			1.3-13.6		0	918
Al _{2.968} Gd _{0.032} La	3.00			2.09		0	918
Al _{2.966} Gd _{0.034} La	2.05			1.30		0	918
Al _{2.98} Gd _{0.02} La	4.00			7.96		0	918
Al _{2.988} Gd _{0.012} La	5.00			13.55		0	918
Al _{0.8} Ge _{0.2} Nb ₃	17.8-19.1 Data given						823
Al _{1-x} Ge _x Nb ₃	20.7			≈ 200		14	876
Al _{0.66} Ge _{0.33} Nb _{2.5}	19.6-20.1			380 (Estimated)		0	896
Al _{0.75} Ge _{0.25} Nb ₃	18.5			420		4.2	789
Al _{0.153} Ge _{0.057} Nb _{0.79}				410		4.2	787
Al _{0.8} Ge _{0.2} Nb ₃	10.7			130		4.2	708 ^v
Al La ₃	6.16			7.92		0	943
Al La ₃	6.16			11.57			918
Al Nb ₃	17.14			246		0	880
Al Nb ₃	≈ 18.7			295		4.2	787
Al _{0.0015} Sn _{0.9985}				0.0175		3.595	850
AuV ₃	2.55			≈ 9		2.25	857
AuV ₃	2.980			22-37		0	707
AuV ₃	1.785			22-37		0	707
AuV ₃	0.86			22-37		0	707
B C Mo ₂	7.1			28		4.2	966

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Ba _x O ₃ Sr _{1-x} Ti	0.50	0.0039				0	1005
Bi	6.55			11.75 (Upper)		0	973
Bi ₂ K	3.57		Data given				897
Bi _{0-0.56} Pb _{1-0.44}				0.53-13.8		4.2	750,855
Bi _{0.025-0.40} Pb _{0.975-0.60}		0.44- 0.105- 0.141	0.57-0.909	0.94-17.7		4.2	949
C _{2.5} H _{2.5} N _{0.5} S ₂ Ta	3.5			Data given			1027
C _{0.64} Mo	8.0			47		4.2	966
C _{0.69} Mo	12.1			98		4.2	966
C _{0.52} Ti	3.42			48		1.6	790
C _{0.46} Ti	3.32			45		1.6	790
Ca _x O ₃ Sr _{1-x} Ti	0.50	0.0019				0	1005
CaSi ₂	1.58			1.0 0.32		0.35 1.0	961
Cd _{0.02} Hg _{0.98}					Data Given		978
Cd _{0.015} Hg _{0.985}					Data Given		978
Co _{0.002} Mo _{0.815} Re _{0.185}	5.8			6.1		0	881
Cr ₃ Ir	0.168			10.5		0	707
Cr ₃ Rh	0.072			9.1		0	707
Cr _x V _{1-x}	1.3-5.1			Data Given			441
Cu _{0-60w/o} Nb _{100-40w/o}				Data Given			960
Fe _{0.0008} Mo _{0.725} Nb _{0.061} Re _{0.187}	1.85			1.3		0	881
Fe _x Mo _{0.865} Re _{0.135}	2.1-6.1			3.6-1.7		0	881
Fe _{0.0006} Mo _{0.865} Re _{0.135}			0.408	1.44		1.53	881
Fe _x Mo _{0.87} Re _{0.13}				1.7-3.1		5.55	982
Fe _{0.05} Nb _{0.38} Ti _{0.57}				83 Max.		4.2	905

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Ga ₄ Mn _x Mo _{1-x}	8.0-4.0			74-25		0	753
Ga V ₃	14.1			208		0	877
Ga V ₃				215		4.2	872
Ga V ₃	14.83			236		0	880
Ga V _{4.5}	8.6			95		4.2	787
Ga V ₃	14.0			200		4.2	787
GeTe _{1.03}	0.172			0.095		0	807,770
GeV ₃	6.7			73		1.3	719 [∇]
GeV ₃	6.7			51		1.3	719 [∇]
GeV ₃	6.9			31		1.3	719
Hf _x Nb _{1-x}				I _c Data given			441
In (In pores)	3.68-4.17			11.6-58.4			738
In _{0.063} Pb _{0.937}		0.43		2.3		1.2	844,750 [∇]
In _{0.18-0.89} Pb _{0.82-0.11}		0.170- 0.028	0.52- 0.052	3.0-4.1-0.15		4.2	949
In _{0.35} Pb _{0.965}		0.6	0.85	1.75		0	919
In _{0.6} Pb _{0.4}	6.36	0.362 0.630		3.250		3.9 0	809
In _{0.961} Pb _{0.039}	3.64	Data Given	Data Given	Data Given			1025
In _x Sn _{1-x}				Data Given			750 [∇] , 854 [∇] 910
La				Data Given			925
La ₃ Te ₄	3.75 2.45	0.060 0.020		12.5 8		1.4 1.4	1024
Mo _x Nb _{1-x}				I _c Data Given			441
Mo _{0.725} Nb _{0.061} Re _{0.187}	5.0			2.65		0	881
Mo _{0.815} Re _{0.185}	8.27			7.0		0	881
Mo _{0.865} Re _{0.135}	6.1		0.471	1.57		4.2	881

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Mo _{0.16} Ti _{0.84}	4.246	0.905		60-66 59.3		0 1.18	805
Nb _{0.93}	15.85			158		0	880,873
Nb _{0.92}	16.30			130		0	880
Nb _{0.91} Nb _{0.99} Ta _{0.01}	15.62			135		0	880
Nb _{0.91} Nb _{0.974} Ta _{0.026}	15.09			135		0	880
Nb _{0.92} Nb _{0.946} Ta _{0.054}	14.41			135		0	880
Nb _{0.91} Nb _{0.82} Ta _{0.18}	10.9			100		0	880
Nb Nb Ti				>136		4.2	839 [▽]
Nb _{0.85} Nb _{0.66} Ti _{0.34}	17.61			119		0	880
Nb _{0.88} Nb _{0.256} Ti _{0.744}	14.72			104		0	880
Nb _{0.90} Nb _{0.114} Ti _{0.886}	10.1			100		0	880
Nb Nb Zr				>136		4.2	839 [▽]
Nb _{0.74} Nb _{0.9} Zr _{0.1}	14.42			136		0	880
Nb _{0.76} Nb _{0.85} Zr _{0.15}	14.16			132		0	880
Nb _{0.85} Nb _{0.75} Zr _{0.25}	12.96			116		0	880
Nb _{0.73} Nb _{0.95} Zr _{0.05}	15.42			146		0	880
Nb				2.80 (Outgassed) 4.70 (As prepared)		4.2	895
Nb (Rods and tubes)				4.2		4.2	751
Nb (Irradiated)				2.5-4.3			832
Nb	9.1			53		1.3	719 [▽]
Nb	9.3			68		1.3	719 [▽]
Nb	6.4-9			>30		Various	913 [▽]
Nb	10.0			40		0	719 [▽]
Nb				3.87 H// [100] 4.33 H// [111] 4.02 H// [110]		1.2	827
Nb (Foil)							883

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Nb	9.1			3.82, 6.69 (at 16 k bar)			995
Nb	9.20	1.8		4.00	18.3		994,1
Nb	9.20	1.8		4+	8.1	0	994
Nb	9.23			4.20		0	928
Nb _{1-x} O _x				Data given			441
Nb _{0.9926} O _{0.0084}				7.7 ₄	~ 13	4.2	772
Nb _{0.993} O _{0.007}	8.7 ₈			7	11.1	4.2	771
NbO (200 ppm)					8.0 (cold worked) 8.5	4.2	771
Nb _{0.985} O _{0.0152}	8.0 ₄			9.6	11.5	4.2	771
Nb _{1-x} O _x				Data given			944
Nb ₃ Os	0.943			1.26		0	707
Nb _{0.339} Se _{0.661}	6.1			Data given			996
Nb _{0.338} Se _{0.662}	6.75			Data given.			996
NbSe ₂	7.0			Data given.			996
Nb ₃ Sn (Layer on Nb core)	18.1			245		0	877
Nb ₃ Sn (Core wire)	18.04			260		0	880
Nb ₃ Sn (Clad)	18.00			260		0	880
Nb ₃ Sn (multiwire)	18.21			280		0	880
Nb ₃ Sn	18.0			235		4.2	787
Nb _{2.85} SnZr _{0.15} (Clad)	18.07			260		0	880
Nb _{2.79} SnZr _{0.21} (Clad)	17.98			260		0	880
Nb _{2.70} Sn Zr _{0.30} (Clad)	18.01			260		0	880
Nb _{0.9378} Ta _{0.0622}	8.42	1.12	1.8 ₉	5.56		0	864
Nb _{0.9575} Ta _{0.0425}	8.55	1.37	1.9 ₈	5.30		0	864
Nb _{0.9844} Ta _{0.0156}	8.76	1.70	2.0 ₃	4.50		0	864
Nb _{0.9913} Ta _{0.0087}	8.87	1.75	2.0 ₅	4.40		0	864
Nb ₁₋₀ Ta ₀₋₁	9.18-4.33			Data given.			940

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Nb _{0.96} Ta _{0.04}	8.87			6.14		0	928
Nb _{1-0.6} Ta _{0-0.4}	9.23-6.56			4.2-9.2		0	928
Nb _{0.87} Ta _{0.13}	8.15	0.91	1.69	7.08		0	911
Nb _{0.79} Ta _{0.21}	7.51	0.83	1.65	7.93		0	911
Nb _{0.67} Ta _{0.33}	6.81	0.55	1.37	8.73		0	911
Nb _{0.54} Ta _{0.46}	6.25	0.48	1.27	8.60		0	911
Nb _{0.37} Ta _{0.63}	5.31	0.37	1.04	6.75		0	911
Nb _{0.17} Ta _{0.83}	4.65	0.33	0.83	4.26		0	911
Nb _{1-x} Ta _x				Data given.			441,981
Nb _{0.55} Ti _{0.45}	9.4			108		4.2	830
Nb _{0.4} Ti _{0.6}				107		4.2	830
Nb _{0.21} Ti _{0.79}	7.8	1.125	3.572	77		4.2	991
Nb _{0.20} Ti _{0.80}	7.5	1.12	3.57	80		4.2	991
Nb _{0.44} Ti _{0.56}	8.99			Data given.			874
Nb _{0.20} Ti _{0.80}	6.6-6.15			Data given.			965,441
Nb _{0.22} Ti _{0.78}	6.92			30.1	45	5.54	993
Nb _{0.48} Ti _{0.52}				I _c vs H given.			968
Nb _{0.33} Ti _{0.67}				I _c vs H given.			968
Nb _{0.62} Ti _{0.14} Zr _{0.24}	9.6			69		4.2	830
Nb _{0.75} Ti _{0.15} Zr _{0.10}	9.7			57		4.2	830
Nb _{0.53} Ti _{0.18} Zr _{0.29}	9.1 9.0			81 80 (after anneal)		4.2 4.2	830
Nb _{0.57} Ti _{0.33} Zr _{0.10}	9.6			78		4.2	830
Nb _{0.62} Ti _{0.14} Zr _{0.24}	9.7			76		4.2	830

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
Nb _{0.35} Ti _{0.15} Zr _{0.50}	8.6 9.3			79 77 (after anneal)		4.2 4.2	830
Nb _{0.43} Ti _{0.27} Zr _{0.30}	8.6 9.1			75 77 (after anneal)		4.2 4.2	830
Nb _{0.48} Ti _{0.30} Zr _{0.22}	8.9 9.0			78 80 (after anneal)		4.2 4.2	830
Nb _{0.47} Ti _{0.48} Zr _{0.05}	8.7			89		4.2	830
Nb _{0.52} Ti _{0.16} Zr _{0.32}	9.4 9.5			71 72 (after anneal)		4.2 4.2	830
Nb _{0.65} Ti _{0.15} Zr _{0.20}	9.8			65		4.2	830
Nb _{0.41} Ti _{0.15} Zr _{0.44}	8.7 9.3			77 76 (after anneal)		4.2 4.2	830
Nb _{0.19} Ti _{0.51} Zr _{0.30}	10.05			I _c vs H given			965
Nb _{0.19} Ti _{0.74} Zr _{0.07}	9.1 9.30			I _c vs H given			965
Nb _{1-x} W _x				Data given			441
Nb ₀₋₁ Zr ₁₋₀				<1-42-3		4.2	847
Nb _{1-x} Zr _x				Data given.			441
Nb Zr	10.8			92		0	739
Nb _{0.75} Zr _{0.25}	(10.6) (11.1)			81.9 (Abrikosov) 83.4 (Gorkov)		0	975
Nb _{0.20} Zr _{0.80}		1.12	3.57	80		4.2	991
O ₃ Sr Ti							770
O ₃ Sr Ti	0.30, 0.25	0.0028				0	1005
P (170 k bar)	5.8-3.6			~4.8->10		0	786
Pb				H _c () and H _c (⊥) given.			752 ^v , 985 ^v
Pb _{0.965} Tl _{0.035}		0.8	1.2	1.5		0	919
Pb Tl ₃	0.486			3.45		0	707
SiV ₃	16.9			235		0	877
SiV ₃ (Core wire)	16.86			230		0	880

Material	T _c	H _{c1}	H _c	H _{c2}	H _{c3}	T _{obs}	Ref.
SiV ₃	16.8			228		4.2	787
SiV ₃				~105		10	716 [∇]
Sn	3.84-3.92						723 [∇] , 750 [∇]
SnTe	0.034- 0.214	0.0005- 0.0019	0.001- 0.0105	~0.005-0.09		0	770
Sn _{0.65} Tl _{0.35}	6-7.1			3.46		4.2	900
Ta	3.16			26		1.3	719 [∇]
Ta _{0.52} Ti _{0.48}	7.86			Data given.			874
Ta _{1-x} Zr _x				I _c vs H given.			441
Te ₃ Tl ₅	2.20			~1.7		1.2	848
Ti _{80w/o} V _{20w/o}	3.65-3.37			I _c vs H given.			838
Ti _{0.6} V _{0.4}	7.0			86 109 110		4.2 2.18 118	878
Ti _{0.42} V _{0.58}	7.52			Data given.			874
Ti _x V _{1-x}	5.2-7.5			Data given.			441
V (Impure)	4.68 5.06 5.17	0.36 0.70 0.72	1.16 1.33 1.34	8.0 5.50 4.58		0 0 0	917 917 917
V _{26w/o} Zr _{74w/o}	≈5.9	0.165 0.185 0.227 0.238				3.5 3.04 1.78 1.05	678
V _{0.4} Zr _{0.6}	~7.8			~110		4.2	889
V _{0.1-0.9} Zr _{0.9-0.1}	6.5-8.3- 7.6			28-100-62		4.2	889

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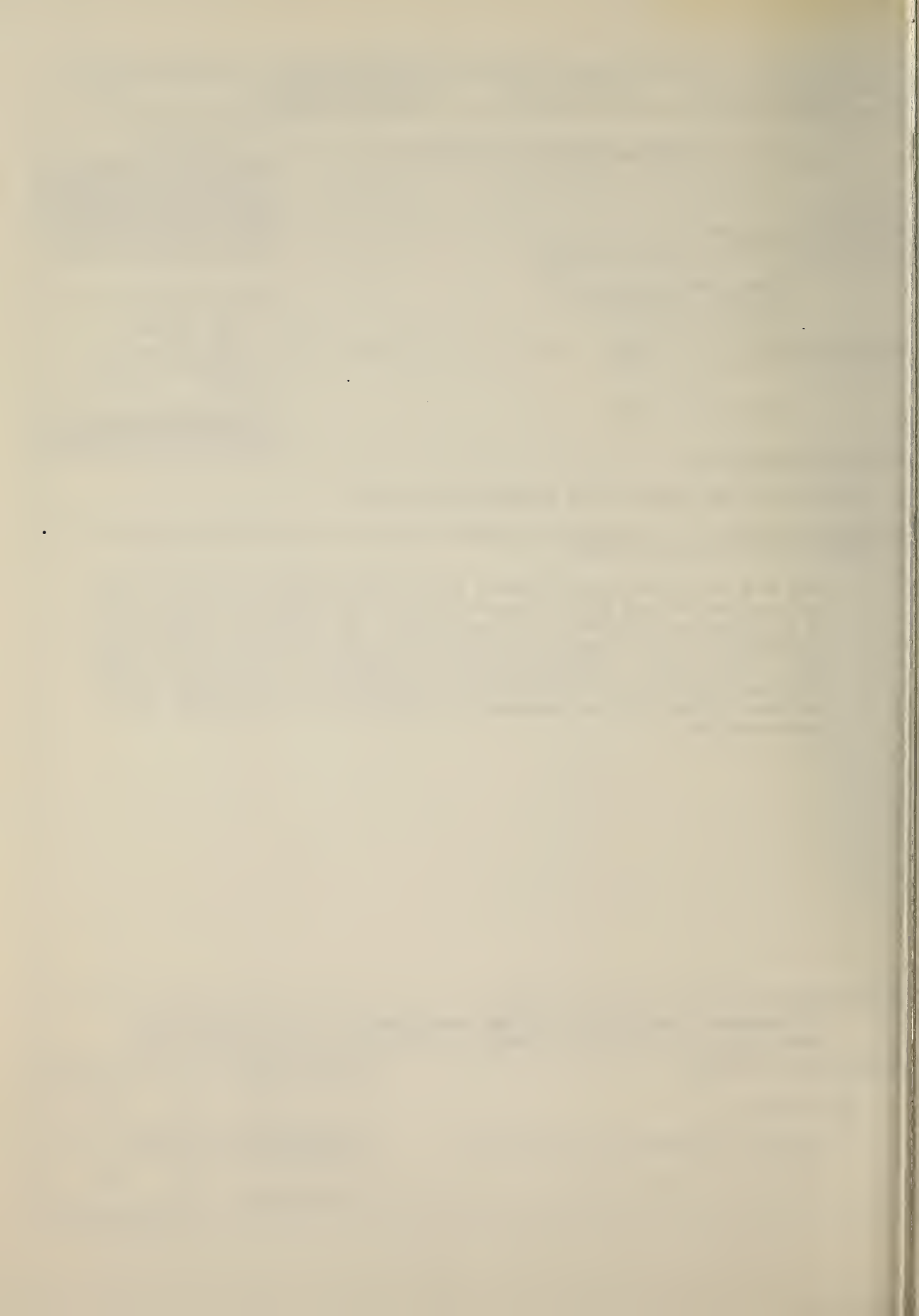
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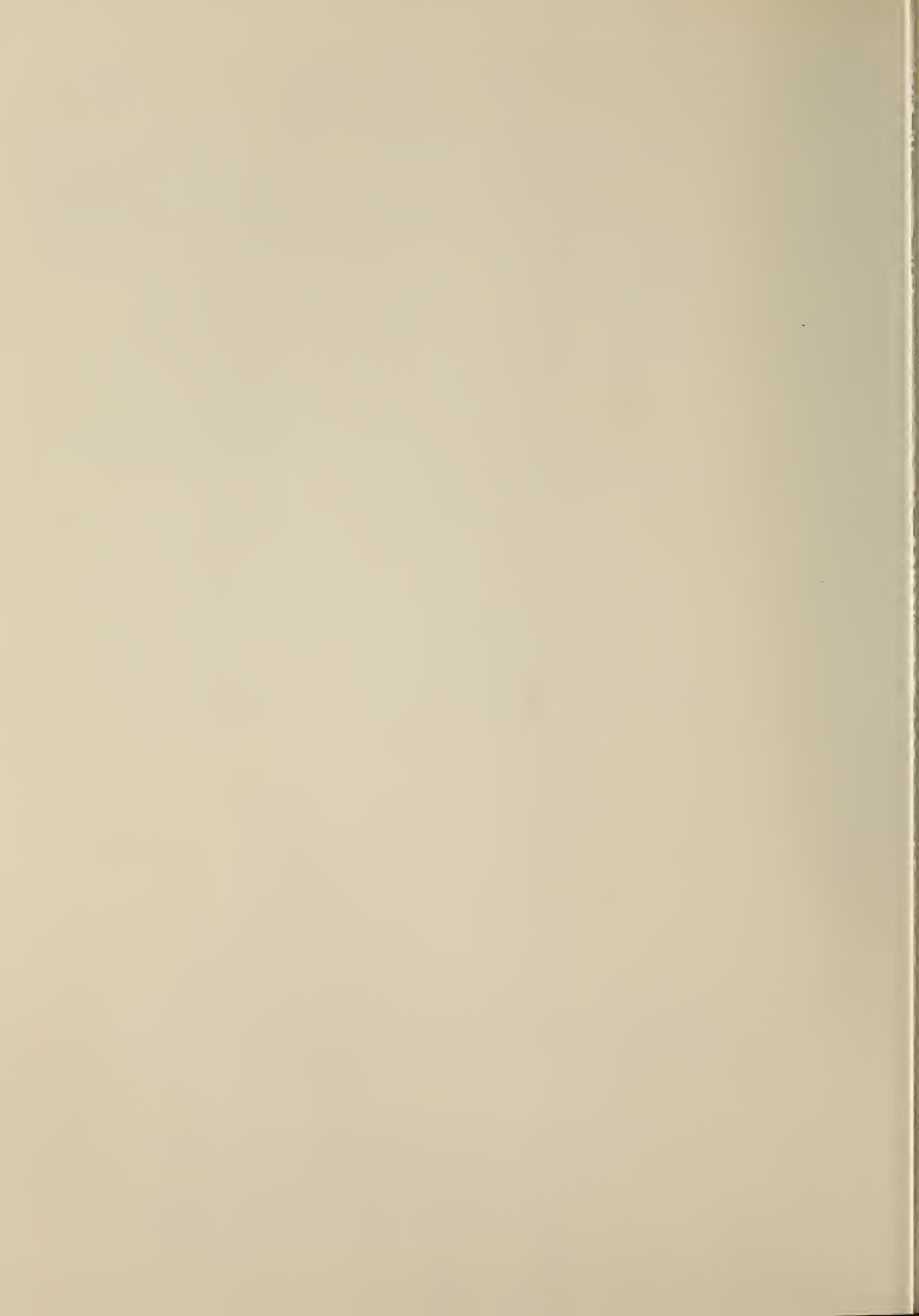
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