Superconductors – Material Research

Substance	Class	T_C (K)	H_C (T)	Type	BCS	References
LaH_{10}	Polyhydride	250 (150 GPa)				[50]
CaH_6	Clathrate	215 (172 GPa)				[17][18]
H_2S	Polyhydride	203 (155 GPa)		II		
HgTlBaCaCuO	Cuprate	164		II		[*citation needed*]
HBCCO	Cuprate	135				
BSCCO	Cuprate	104				
YBCO	Cuprate	95	120–250	II	no	
EuBCO	Cuprate	93		II	no	[46]
GdBCO	Cuprate	91		II	no	[47]
$La_3Ni_2O_7$	Oxonickelate	80 (>14 GPa)				[49]
FeSe:$SrTiO_3$	Iron-based	60-100				
SmFeAs(O,F)	Iron-based	55				
$CuBa_{0.15}La_{1.85}O_4$	Cuprate	52.5				[45]
CeFeAs(O,F)	Iron-based	41				
MgB_2	Compound	39	74	II	yes	[29]
$C_{60}Cs_3$	Compound	38				
(Ba,K)Fe2As2	Iron-based	38				
$C_{60}Cs_2Rb$	Compound	33		II	yes	[22]
$C_{60}Rb_X$	Compound	28		II	yes	[24]
LaFeAs(O,F)	Iron-based	26				
Nb_3Ge	Compound	23.2	37	II	yes	[32]
NaFeAs	Iron-based	20				
$C_{60}K_3$	Compound	19.8	0.013	II	yes	[16][23]
Nb_3Sn	Compound	18.3	30	II	yes	[34]
Nb_3Al	Compound	18		II	yes	[2]
$NbC_{1-x}N_x$	Compound	17.8	12	II	yes	[30][31]
V_3Si	Compound	17				[39]
NbN	Compound	16		II	yes	[2]
C_6Ca	Compound	11.5	0.95	II		[19]
Diamond:B	Element	11.4	4	II	yes	[5][6][7]
$C_6Li_3Ca_2$	Compound	11.15		II		[19]
LaFeSiH	Iron-based	11				[48]
NbTi	Compound	10	15	II	yes	[2]
ZrN	Compound	10			yes	[43]
Nb	Element	9.26	0.82	II	yes	[2][3]
YB_6	Compound	8.4		II	yes	[40][41][42]
Ba_8Si_{46}	Clathrate	8.07	0.008	II	yes	[16]
Tc	Element	7.46–11.2	0.04	II	yes	[2][3]
Pb	Element	7.19	0.08	I	yes	[2][3]
C_6Yb	Compound	6.5		II		[19]
β-La	Element	6.3		I	yes	[2]
ZrB_{12}	Compound	6.0		II	yes	[42]
TiN	Compound	5.6	5	I	yes	[36][37][38]
V	Element	5.03	1	II	yes	[2][3]
C_2Na	Compound	5.0		II		[20]
α-La	Element	4.9		I	yes	[2]
Ta	Element	4.48	0.09	I	yes	[2][3]
α-Hg	Element	4.15	0.04	I	yes	[2][3]
LaFePO	Iron-based	4				
β-Hg	Element	3.95	0.04	I	yes	[2][3]
Sn	Element	3.72	0.03	I	yes	[2][3]

Figure 1: A list of superconductors (Source: Wikipedia, yes I know)

I would hazard a guess that the most used superconductors are those that are alloys of Niobium, my reasoning is that they have reasonably high critical temperatures (around 10 to 30 kelvin) which isn't high but is cold enough to be cooled by liquid helium which is a common coolant amongst superconductors.