

Table 1: Correspondence of solution nicknames & names of the FTlite 6.4 Database to the FTlite 7.1 version. (Please note that the FTlite 7.1 version contains more solutions, the extra solutions are NOT listed in the present Table).

Index	6.4 Nickname	6.4 Name	Short description	7.1 Nickname	7.1 Name	Short description
1	Liqu	Liquid	Liquid metal	Liqu	Liquid	Liquid metal
2	FCC	FCC_A1	C, N, B and H interstitial	FCC	FCC_A1	Prototype_Cu-A1 cF4 Fm-3m (225) C, N, B and H interstitial
3	HCP	HCP_A3		HCP	HCP_A3	Prototype_Mg-A3 hP2 P63/mmc (194)
4	BCC	BCC_A2	C, N and B interstitial	BCC	BCC_A2	Prototype_W-A2 cI2 Im-3m (229) C, N and B interstitial
5	Diam	Diamond_A4	Fd-3m structure for Si, C, Ge with dissolved Al, B, Sn, Ti, Bi, Sb, P, As and Zn.	Diam	Diamond_A4	Prototype_C-diamond-A4 cF8 Fd-3m (227) C, Ge, alpha-Sn and Si are stable
6	DHCP	DHCP_A3'	(prototype La, hP4) La, Ce, Pr, Nd with solubility of Gd, Sm, Dy, Y, Mg, Yb, Er and Sc	DHCP	DHCP_A3'	Prototype_La-A3' hP4 P63/mmc (194) La, Ce, Pr, Nd, Pm
7	CBCC	CBCC_A12	alpha-Mn	A12	CBCC_A12	Prototype_alpha-Mn-A12 cI58 I-43m (217) alpha-Mn, Al ₁₂ Mg ₁₇ , Mg ₂₄ RE ₅ (RE=Y,Tb,Dy,Ho,Er,Tm,Lu) are stable
8	CUB1	CUB_A13	beta-Mn	A13	CUB_A13	Prototype_beta-Mn-A13 cP20 P4132 (213) beta-Mn and Ag ₃ Al are stable
9	hP12	Laves_C14	Prototype MgZn ₂ :CaLi ₂ ,Mg ₂ Ca,Mg ₂ Sr,Mg ₂ Ba,Mg ₂ RE(RE = Y,Tb,Dy,Ho,Er,Tm,Yb,Lu) are stable phase	C14	Laves_C14	Prototype_MgZn ₂ -C14 hP12 P63/mmc (194) CaLi ₂ ,Mg ₂ Ca,Mg ₂ Sr,Mg ₂ Ba,Mg ₂ RE(RE = Y,Tb,Dy,Ho,Er,Tm,Yb,Lu) are stable phase
10	cF24	Laves_C15	prototype MgCu ₂ : Mn ₂ Y, Al ₂ Ca, Al ₂ Sc, Al ₂ Y, Al ₂ Ba, Mg ₂ RE(RE = La,Ce,Pr,Nd,Sm,Gd) Al ₂ RE (RE=La to Lu) are stable phases	C15	Laves_C15	Prototype_MgCu ₂ -C15 cF24 Fd-3m (227) Mn ₂ Y, Al ₂ Ca, Al ₂ Sc, Al ₂ Y, Al ₂ Ba, Mg ₂ RE & Fe ₂ RE(RE = La,Ce,Pr,Nd,Sm,Gd) Al ₂ RE (RE=La to Lu)
11	hP24	Laves_C36	prototype MgNi ₂	C36	Laves_C36	Prototype_MgNi ₂ -C36 hP24 P63/mmc (194) (Use [I]-Option) MgNi ₂ , Cr ₂ Zr are stable, also in Al-Ba-Ca-Mg system
12	B32	AlLi	dissolving Mg BCC-B32 Al-Li phase at ca. 47-55 at.% Li with solubility for Mg. Stable to 963 K.	B32	Prototype_NaTi-B32	cF16 Fd-3m (227) AlLi is stable
13	Beta	Beta_Al3Mg2	dissolving Zn, Li non-stoichiometric solid solution	Beta	Beta_Al3Mg2	Prototype_Cd2Na cubic cF1192 Fd-3m dissolving Zn, Li non-stoichiometric solid solution (prototype : Cd ₂ Na)

14	cI58	Gamma_Al12Mg17	s.s. or Mg ₂₄ RE ₅ s.s. (prototype a-Mn, cI58), valid for Al-Mg-Zn-Li,(Mg,RE) ₁₀ (Al,Mg) ₂₄ (Al,Mg) ₂₄ Al-Ca-Mg-Sr, Mg-RE (RE = Y,Er,Dy,Ho,Tb,Tm,Lu with partial solubility of La,Ce,Pr,Nd,Sm,Gd)	A12	CBCC_A12	Prototype_alpha-Mn-A12 cI58 I-43m (217) alpha-Mn, Al ₁₂ Mg ₁₇ , Mg ₂₄ RE ₅ (RE=Y,Tb,Dy,Ho,Er,Tm,Lu) are stable
16	Al5F	Al5Fe2	Phase at ca. 71.5 at.% Al in Al-Fe. Solubility for Mn and Zn.	oC24	Al5Fe2	oC24 Cmcm Phase at ca. 71.5 at.% Al in Al-Fe. Solubility for Mn and Zn.
17	Al13	Al13Fe4_'Al3Fe'	mC102 Al-rich Al-Fe phase with solubility for Mn and Zn.	Al13	Al13Fe4_'Al3Fe'	mC102 C2/m Al-rich Al-Fe phase with solubility for Mn and Zn.
18	Al52	Al5Fe4	High-temperature Al-Fe phase with small range of stability (around 60 at.% Al, 1375-1505 K) and solubility for Mn.	Al52	Al5Fe4	High-temperature Al-Fe phase with small range of stability (around 60 at.% Al, 1375-1505 K) and solubility for Mn
19	oC28	Al6Mn	Cmcm Al-rich phase (ca. 86 at.% Al) in the Al-Mn system with solubility for Fe.	D2h	Prototype_Al6Mn-D2h	oC28 Cmcm (63) Al-rich phase (ca. 86 at.% Al) in the Al-Mn system with solubility for Fe.
20	hR26	Al8Mn5_D810	R3m Al-Mn phase at 50-68 at.% Al with solubility for Cu and Fe. Stable to ca. 1463 K.	D810	Prototype_Al8Cr5-D810	hR26 R3m (160) Al8Mn5
21	Al4M	Al4Mn	hP574 Phase at 80 at.% Al in Al-Mn with solubility for Fe.	Al4M	Al4Mn	hP574 P63/mmc Phase at 80 at.% Al in Al-Mn with solubility for Fe and Cr
22	aP15	Al11Mn4	Al-rich phase in Al-Mn with Fe solubility	aP15	Al11Mn4	aP15 Al-rich phase in Al-Mn with Fe solubility
23	cl26	Al12Mn	Im3 Al-rich Al-Mn phase whith solubility for Fe	cl26	Al12Mn	cl26 Im3 Al12Mn, Al12Mo, Al12W are stable
30	AlFe	AlFeSi_alpha	approx. stoichiometry Al7Fe2Si	Tau5	AlFeSi_alpha	(Tau 5) Hexagonal. Looks usually like chinese script or rod-like in Al-Fe-Si alloys approx. stoichiometry Al7Fe2Si
31	AlM1	AlMnSi_alpha	approx. stoichiometry Al9Mn2Si with solubility of Fe	AlM1	AlMnSi_alpha	Cubic cP138 Pm-3 approx. stoichiometry Al9Mn2Si with solubility of Fe
32	AlM2	AlMnSi_beta	Al-Mn-Si phase	AlM2	AlMnSi_beta	Hexagonal ~Al9Mn3Si
33	AFMS	AlFeMnSi_alpha	Al-Fe-Mn-Si quaternary solution	AFMS	AlFeMnSi_alpha	Al-Fe-Mn-Si quaternary solution
34	Tau5	Tau5	Al3Fe(Al,Si) also called gamma	Tau2	AlFeSi_gamma	(Tau 2) Monoclinic approx. stoichiometry Al3FeSi
35	Phi	Phi	Phase in the Al-Mg-Zn system with stoichiometry (Mg) ₆ (Al,Zn) ₅ with solubility for Cu.	Phi	Phi	Phase in the Al-Mg-Zn system with stoichiometry (Mg) ₆ (Al,Zn) ₅ with solubility for Cu.

36	MgZn	MgZn	real stoich. Mg ₁₂ Zn ₁₃ Mg-Zn phase at ca. 50 at.% Zn with solubility for Al and Cu. Stable to ca. 620 K.	MgZn	Mg ₁₂ Zn ₁₃	Mg-Zn phase at ca. 50 at.% Zn with solubility for Al and Cu. Stable to ca. 620 K.
37	cP39	Mg ₂ Zn ₁₁	cP39-Pm3 V_phase	D22	Prototype_Mg ₂ Zn ₁₁ 1-D22	cP39 Pm-3 (200) V_phase: Mg ₂ Zn ₁₁ and Mg ₂ Cu ₆ Al ₅ are stable compounds
38	mC11	Mg ₂ Zn ₃	mC110-B2/m Mg-Zn phase at ca. 60 at.% Zn with solubility for Al and Cu. Stable to 689 K.	mC11	Mg ₂ Zn ₃	mC110 B2/m Mg-Zn phase at ca. 60 at.% Zn with solubility for Al and Cu. Stable to 689 K.
39	Tau1	AlMgZn_Tau	cI162 Al-Mg-Zn phase with stoichiometry (Mg) ₂₆ (Al,Mg) ₆ (Al,Mg,Zn,Cu) ₄₈ (Al) ₁	D8e	Prototype_Mg ₃₂ (Al,Zn) ₄₉ -D8e	T-Phase cI162 Im-3 Al-Mg-Zn-Cu-Ag phase with stoichiometry (Mg) ₂₆ (Al,Mg) ₆ (Al,Mg,Zn,Cu,Ag) ₄₈ (Al) ₁
40	HCP2	HCP_Zn	Solid solution based on Zn with solubility for Al, Cr, Cu, Fe, Li, Mg, Si and Sn.,	HCP2	HCP_Zn	Prototype_Mg-A3 hP2 P63/mmc (194) Higher c/a ratio than Mg-HCP_A3
41	Delta	AlCu_Delta	Al ₂ Cu ₃ Al-Cu phase containing 60 at.% Cu in Al-Cu with solubility for Zn. Stable to ca. 1233 K.	Delta	AlCu_delta	Al ₂ Cu ₃ hR* R-3m delta-Al ₂ Cu ₃ phase containing 60 at.% Cu in Al-Cu with solubility for Zn. Stable to ca. 1233 K.
42	Epsl	AlCu_Epsilon	High-temperature Al-Cu phase at ca. 55 at.% Cu with solubility for Zn. Stable between ca. 873 and 1123 K.	B81	Prototype_NiAs-B81	hP4 P63/mmc (194) epsilon-AlCu and NiBi are stable
43	Eta_	AlCu_Eta	Al-Cu phase at ca. 50 at.% Cu with solubility for Zn. Stable to ca. 923 K.	EtaL	AlCu_eta-LT	mC20 C2/m Al-Cu phase at ca. 50 at.% Cu with solubility for Zn. Stable below 560oC
44	Zeta	AlCu_Zeta	Al ₉ Cu ₁₁ Al-Cu phase at ca. 55 at.% Cu with solubility for Zn. Stable to ca. 863 K.	Zeta	AlCu_zeta	Al ₉ Cu ₁₁ zeta_Al ₉ Cu ₁₁ phase at ca. 55 at.% Cu with solubility for Zn. Stable to ca. 863 K.
45	Thta	Al ₂ Cu_Theta	Stable to ca. 873 K. Important in commercial Al-alloys.	C16	Prototype_Al ₂ Cu-C16	tI12 I4/mcm (140) theta-Al ₂ Cu, Fe ₂ B, W ₂ B, Zr ₂ Fe, Zr ₂ Si and Zr ₂ Ni are stable.
46	Gam4	CuZn_Gamma	Phase exists between ca. 30 & 43 at.% Cu with solubility for Mg. Stable to ca. 1123 K. Alternative description Gamma-Lia	Gam4	CuZn_gamma	Phase exists between ca. 30 & 43 at.% Cu with solubility for Mg. Stable to ca. 1123 K. Alternative description Gamma-Lia
47	D83	Gamma_D83	Al ₄ Cu ₉ Al-Cu phase at ca. 62-69 at.% Cu with solubility for Mn. Stable to ca. 1153 K.	D83	Prototype_Cu ₉ Al ₄ -D83	cP52 P-43m (215) Cu ₉ Al ₄ and InAg ₂ are stable
48	Gam5	Gamma_H	High-temperature Al-Cu phase at 62-69 at.% Cu with solubility for Zn. Stable between ca. 1073 and 1273 K.	Gam5	AlCu_gamma-HT	High-temperature Al-Cu phase at 62-69 at.% Cu with solubility for Zn. Stable between ca. 1073 and 1273 K
49	Tau2	AlCuZn_Tau	Al-Cu-Zn phase	Tau_	AlCuZn_Tau	Rhombohedral Al ₄ Cu ₃ Zn phase
59	B2__	BCC_B2	(prototype CsCl, cP2) MgRE (RE=Ce,Dy,Er,Eu,Gd,Ho,La,Nd,Pr,Sm,Tb,Tm,Y), MgSc, AlSc, CeZn, YZn are also stable	B2	BCC_B2	Prototype_CsCl-B2 cP2 Pm-3m (221) MgRE and ZnRE (RE=Ce,Dy,Er,Eu,Gd,Ho,La,Nd,Pr,Sm,Tb,Tm,Y), MgSc and AlSc are stable

61	tI26	Mg12RE	solid solution (tI26) {Mg,(Al)}12[Ce,La,Pr,(RE)] with limited solid solubility of Al and RE	D2b	Prototype_Mn12Th-D2b	tI26 I4/mmm (139) Mg12RE, Mn12RE, Zn12RE, Al8Cr4RE
62	cF116	Mn23N6	solid solution (prototype Mn23Th6, cF116) [I] Mn23Y6 with limited solubility of Mg and Ce, Mg23Sr6 with limited solubility of Al and Ca.	D8a	Prototype_Mn23Th-6-D8a	cF116 Fm-3m (225) Mn23RE6 with limited solubility of Mg, Gd and Ce, (Mg,Li)23Sr6 with solubility of Al and Ca.
70	aP22	Al3Ca8	dissolving Mg Limited solid solution	aP22	Al3Ca8	dissolving Mg aP22 P-1 Limited solid solution
71	AB2	A(B)2	(Ca,Sr)[Al,Si]2 ordered ternary solid solution (not present in Ca-Al and Ca-Si subsystems)	AB2	A(B)2	(Ca,Sr)[Al,Si]2 ordered ternary solid solution (not present in Ca-Al and Ca-Si subsystems)
72	hR18	CaSi2	dissolving CaAl2 hR18-R(3)m structure - terminal solid solution	C12	Prototype_CaSi2-C12	hR6 R-3m (166) dissolving CaAl2
73	D13	D13	(Al,Mg)4(Ca,Sr,Ba) tI10-I4/mmm solid solution	D13	Prototype_Al4Ba-D13	tI10 I4/mmm (139) (Al,Mg)4(Ca,Sr,Ba,Eu)
74	CMS	CaMgSi	(excess Ca2Si)	CMS	CaMgSi	(excess Ca2Si)
80	CrSi	CrSi2	C54 oF24 Fddd orthorhombic Cr-Si binary phase at ca. 67 at.% Si. Phase stable to ca. 1743 K.	C40	Prototype_CrSi2-C40	hP9 P6222 (180)
81	D88_	D88_M5Si3	Ti-Si binary phase	D88	Prototype_Mn5Si3-D88	hP16 P63/mcm (193) (Si,Ti)3(Ti,Mn,RE)3(Ti,Mn,RE)2(Va,Si)1
90	B2M	B2M	TiB2 prototype : AlB2, ZrB2, HfB2 hP3-P6/mmm solid solution Possible miscibility gap	C32	Prototype_AlB2-C32	hP3 P6/mmm (191) AlB2, CrB2, HfB2, MgB2, TiB2 & ZrB2 are stable
91	BM	BM	FeB prototype: TiB, ZrB, HfB oP8-Pnma solid solution	B27	Prototype_FeB-B27	oP8 Pnma (62) TiB, ZrB, HfB, TiSi, ZrSi and RESi (RE=La,Ce,Pr,Nd,Pm,Sm,Eu,Gd,Tb,Dy,Ho,Er,Tm,Yb,Lu)
92	B4C	B4C	non-stoichiometric	D1g	Prototype_B4C-D1g	hR15 R-3m
93	B3Si	B3Si	B-Si binary phase at ca. 75 at.% B. Stable to ca. 1548 K.	B3Si	B3Si	Rhombohedral B-Si binary phase at ca. 75 at.% B. Stable to ca. 1548 K.
94	B4M3	(Ti,Hf)3B4	B-Ti phase at ca. 57 at.% B, stable to 2473 K. Solubility for Hf.	D7b	Prototype_Ta3B4-D7b	oI14 Immm (71) (Ti,Hf)3B4
95	B6Si	B6Si	B-Si phase at ca. 86 at.% B. Stable to ca. 2113 K.	B6Si	B6Si	orthorhombic Pnnm (Si43B238) B-Si phase at ca. 86 at.% B. Stable to ca. 2113 K.
96	BetB	Beta_Rhombo_B	Solid solution based on B with solubility for C and Si.	Ag	Prototype_beta-B-Ag	tP50 P42/nm (134) Beta-Rhombohedral Boron (with solubility for C and Si)

97	B_nS	B_nSi	B-Si binary phase between ca. 94 to 99 at.% B. Stable to ca. 2298 K.	B_nS	B_nSi	B-Si binary phase between ca. 94 to 99 at.% B. Stable to ca. 2298 K
98	Grap	Graphite	with boron in solution	A9	Graphite_A9	Prototype_C-graphite-A9 hP4 P63/mmc (194)
99	Al4C	Al4C3	Solid aluminum carbide dissolving SiC	D71	Prototype_Al4C3-D71	hR7 R-3m (166) Solid aluminum carbide dissolving SiC
111	Li2Z	Zn3Li2	High-temperature allotropic form of low-temperature stoichiometric Zn3Li2	Li2Z	Zn3Li2	P-3m (164) High-temperature allotropic form of low-temperature stoichiometric Zn3Li2
112	ZnS	Zincblende	III-V solid solution (Al,Ga,In)[P,As,Sb]	B3	Zincblende_B3	Prototype_ZnS-B3 cF8 F-43m (216) (Al,Ga,In)[P,As,Sb]
150	D022	Al3M_D022	Phase at ca. 75 at.% Al in Al- Cr, Mo, Nb, Ta, Ti, V, Zr	D022	Prototype_TiAl3-D022	tI8 I4/mmm (139) Al3M composition
152	D019	AlM_D019	Al-Ti phase (ca. 60 to 78 at.% Ti) with solubility for Mo, Nb, Ta, V and W.	D019	Prototype_Ni3Sn-D019	hP8 P63/mmc (194) La3Al, Ce3Al, Pr3Al and Nd3Al are stable Ti3Al, Zr3Al, Mo3Al, Nb3Al, Ta3Al, Al3Y, Al3La, Al3Ce, Al3Pr, Al3Nd, Al3Sm and Al3Gd are stable
153	AlTi	AlTi	Al-Ti phase (ca. 38 to 52 at.% Ti) with solubility for Cr, Mo, Nb, Ta, V and W.	L10	Prototype_AuCu-L10	tP2 P4/mmm (123) AlTi with solubility for Cr
155	IMYZ	I_Mg3YZn6	Fm53	Fm53	I_REZn6Mg3	Fm53 Icosahedral
157	WMYZ	W_MgYZn3	cF16, Fm3m			REMOVED (evaluated not stable)
160	M3C2	Mg3Ce2Zn3		M3C2	Mg3Ce2Zn3	
164	oP16	Pnma	prototype AlEr oP16 AlPr, AlNd, AlSm, AlGd, AlTb, AlDy, AlHo and AlEr are stable phases.	oP16	Prototype_AlEr	oP16 Pmma AlPr, AlNd, AlSm, AlGd, AlTb, AlDy, AlHo and AlEr are stable phases
165	oC16	Cmcm	prototype AlCe oC16 AlLa and AlCe are stable phases	oC16	Prototype_AlCe	oC16 Cmcm AlLa and AlCe are stable phases
166	hR3	Sm	rhombohedral hR3 R-3m Prototype is Sm	C19	Prototype_alpha-Sm-C19	rhombohedral hR3 R-3m (166)
413	BCT	BCT_A5	tI4	A5	BCT_A5	Prototype_beta-Sn-A5 tI4 I41/amd (141)
415	Cr3S	Cr3Si_A15	Ti3Al phase with Al, Nb and Ti up to Nb3Al	A15	CUB_A15	Prototype_Cr3Si-A15 cP8 Pm-3n (223) Phase of composition A3B formed between (Cr,Mo,Nb,Si,Ti,V)3(Al,Cr,Si,Nb,V)
417	Cu6Y	Cu6Y	Cu-Y binary phase at ca. 86 at.% Cu. Stable to ca. 1183 K.	Cu7Y	Prototype_TbCu7	hP8 P6/mmm Cu6Y phase. Cu-Y binary phase at ca. 86 at.% Cu. Stable to ca. 1183 K
418	CUB2	CUB_A15	Phase of composition A3B formed between (Cr,Mo,Si,Ti)3(Al,Cr,Si).	A15	CUB_A15	Prototype_Cr3Si-A15 cP8 Pm-3n (223) Phase of composition A3B formed between (Cr,Mo,Nb,Si,Ti,V)3(Al,Cr,Si,Nb,V)

420	HSig	High_Sigma	A sigma variant formed between Cr, Mo and Mn.	HSig	High_Sigma	A sigma variant formed between Cr and Mn.
421	Lav1	C14-Laves	hP12 Cr2Ti, Cr2Zr, Fe2Ti, Mn2Ti, Al2Zr	C14	Laves_C14	Prototype_MgZn2-C14 hP12 P63/mmc (194) CaLi2, Mg2Ca, Mg2Sr, Mg2Ba, Mg2RE (RE = Y, Tb, Dy, Ho, Er, Tm, Yb, Lu) are stable phase
422	Lav2	C15-Laves	cF24 phase with A2B stoichiometry Cr2Ti, Cr2Zr, Fe2Zr	C15	Laves_C15	Prototype_MgCu2-C15 cF24 Fd-3m (227) Mn2Y, Al2Ca, Al2Sc, Al2Y, Al2Ba, Mg2RE & Fe2RE (RE = La, Ce, Pr, Nd, Sm, Gd) Al2RE (RE=La to Lu)
424	FZr2	FeZr2		C16	Prototype_Al2Cu-C16	tI12 I4/mcm (140) theta-Al2Cu, Fe2B, W2B, Zr2Fe, Zr2Si and Zr2Ni are stable.
425	FZr3	FeZr3		E1a	Prototype_FeZr3-E1a	oC16 Cmcm
427	Sigm	Sigma	Can form slowly in high Cr, (Mo, V)-steels at lower temperatures.	D8b	Prototype_FeCr-D8b	tP30 P42/mnm (136) Sigma-FeCr, also intermetallic in Al-Nb-Ta and Mn-Ni-V
428	SiV3	SiV3	Si-V binary phase at ca. 75-80 at.% V. Stable to ca. 2192 K.	A15	CUB_A15	Prototype_Cr3Si-A15 cP8 Pm-3n (223) Phase of composition A3B formed between (Cr, Mo, Nb, Si, Ti, V)3(Al, Cr, Si, Nb, V)
429	SnTi	SnTi3	Sn-Ti binary phase at 75 at.% Ti. Stable to 1943 K.	SnTi	Prototype_Ni3Sn-D019b	(194) SnTi3. Stable to 1943 K.
430	AlMo	AlMo~2	High-temperature binary Al-Mo phase between ca. 48-54 at.% Mo. Stable from 1743 to 1993 K.	AlMo	AlMo~2	High-temperature binary Al-Mo phase between ca. 48-54 at.% Mo. Stable from 1743 to 1993 K.
433	Gam3	Gamma_DO3	High-temperature Cu-rich binary phase in Cu-Sn, approx. 16-28 at.% Sn. Stable from 793 to 1028 K.	D03	Prototype_BiF3-D03	cF16 Fm-3m (I21) (225) M3RE (M = Mg, Zn, RE = Ce, La, Pr, Nd, Sm, Gd, Tb, Dy, Lu, Tm), gamma-Cu3Sn
437	W2B5	W2B5	Phase with narrow range of stoichiometry around 69 at.% B. Stable to ca. 2638 K.	D8h	Prototype_B2W-D8h	hP12 P63/mmc (194) Also called W2B5
438	WB_1	WB_Alpha	Low-temperature form of WB. Stable to ca. 2443 K.	Bg	Prototype_MoB-Bg	tI16 I41/amd (141) tetragonal MoB and alpha-WB are stable
439	WB_2	WB_Beta	High-temp. form of WB with small stoichiometric range. Stable to ca. 2938 K.	B33	Prototype_CrB-B33	oC8 Cmcm (63) CrB, WB, CaSi, SrSi, BaSi, CaSn, SrSn, AlY, RESi (RE=Sc, Y) are stable
440	Cu4Ti	Cu4Ti	Cu-Ti binary phase with small range of stoichiometry. Stable to 1158 K.	oP20	Cu4Ti	oP20 Pnma Prototype_ZrAu4 Cu-Ti binary phase with small range of stoichiometry. Stable to 1158 K
441	CuTi	CuTi	Cu-Ti binary phase with small range of stoichiometry. Stable to ca. 1255 K.	B11	Prototype_CuTi-B11	tP4 P4/nmm (129) gamma-CuTi

442	NiMo	NiMo	Mo-Ni binary phase at ca. 42-53 at.% Ni. Stable to ca. 1665 K.	NiMo	NiMo	Mo-Ni binary phase at ca. 42-53 at.% Ni. Stable to ca. 1665 K.
443	L12_	L12_FCCIFCC_A1	(Al,Ni,Fe,Si) ₃ (Al,Ni,Fe,Si) ₁ Ordered FCC phase in Al-Ni, Fe-Ni and Ni-Si.	L12c	L12_FCCIFCC_A1	(Al,Ni,Fe,Si) ₃ (Al,Ni,Fe,Si) ₁ (221) Ordered FCC phase in Al-Ni, Fe-Ni and Ni-Si.
444	Teta	Teta	High-temperature Ni-Si binary phase at 33-40 at.% Si, stable between ca. 1097 to 1565 K.	Teta	Ni2Si	High-temperature Ni-Si binary phase at 33-40 at.% Si, stable between ca. 1097 to 1565 K.
445	NiT1	NiTa	Ni-Ta binary phase at ca. 50-54 at.% Ta. Stable to ca. 1831 K.	NiT1	NiTa	Ni-Ta binary phase at ca. 50-54 at.% Ta. Stable to ca. 1831 K.
446	NiT2	NiTa2	Ni-Ta binary phase at ca. 66-70 at.% Ta. Stable to ca. 2059 K.	NiT2	NiTa2	Ni-Ta binary phase at ca. 66-70 at.% Ta. Stable to ca. 2059 K.
447	Ni3M	Ni3MoTa	Phase at ca. 75 at.% Ni, exists in Mo-Ni and Ni-Ta.	Ni3M	Ni3MoTa	Phase at ca. 75 at.% Ni, exists in Mo-Ni and Ni-Ta.
448	TiNi	TiNi	Equiatomic Ni-Ti phase with ca. 10 at.% range. Stable to ca. 1573 K.	B2_b	BCC_B2b	Prototype_CsCl-B2 cP2 Pm-3m (221) Equiatomic Ni-Ti phase with ca. 10 at.% range. Stable to ca. 1573 K.
449	Ni3Z	Ni3Zr	Ni-Zr binary phase at ca. 35 at.% Zr with small range of homogeneity. Stable to 1196 K.	D019	Prototype_Ni3Sn-D019	hP8 P63/mmc (194) La3Al, Ce3Al, Pr3Al and Nd3Al are stable Ti3Al, Zr3Al, Mo3Al, Nb3Al, Ta3Al, Al3Y, Al3La, Al3Ce, Al3Pr, Al3Nd, Al3Sm and Al3Gd are stable
450	Ni5Z	Ni5Zr	Ni-Zr binary phase, stoichiometric range ca. 14-16 at.% Zr. Stable to ca. 1590 K	C15c	Laves_C15c	cF24 F-43m (227) Ni5Zr Stable to ca. 1590 K
451	Ni10	Ni10Zr7	Ni-Zr binary phase, stoichiometric range ca. 40-42 at.% Zr. Stable to ca. 1562 K.	Ni10	Ni10Zr7	Ni-Zr binary phase, stoichiometric range ca. 40-42 at.% Zr. Stable to ca. 1562 K.
452	A3Ni	Al3Ni2	Al-Ni phase at ca. 60-65 at.% Al. Stable to 1406 K	D513	Prototype_Al3Ni2-D513	hP5 P-3m1 (164) Al-Ni phase at ca. 60-65 at.% Al. Stable to 1406 K
453	Mn2Z	Mn2Zr	Mn-Zr phase at 67-72 at.% Mn. Stable to 1723 K.	C14	Laves_C14	Prototype_MgZn2-C14 hP12 P63/mmc (194) Al2Zr, CaLi2, Cr2(Ti,Zr), Fe2Sc, Fe2Ti, Mg2(Ca, Sr, Ba), Mg2RE (RE = Y, Tb, Dy, Ho, Er, Tm, Yb, Lu) are stable phase
455	D82	D82_FeZn_Gamma	Fe-Zn binary phase at ca. 67-80 at. % Zn. Stable to ca. 1053 K.	D81	Prototype_Cu5Zn8-D81	cI52 I-43m (217) Fe-Zn gamma phase at ca. 67-80 at. % Zn. Stable to ca. 1053 K.
456	FeZ1	FeZn4	Fe-Zn binary phase at ca. 74-78 at.% Zn. Stable to ca. 820 K.	FeZ1	FeZn4	Fe-Zn binary phase at ca. 74-78 at.% Zn. Stable to ca. 820 K.
457	FeZ2	FeZn_Delta	Fe-Zn binary phase at ca. 86-89 at.% Zn. Stable to ca. 943 K.	FeZ2	FeZn_delta	delta_FeZn7 binary phase at ca. 86-89 at.% Zn. Stable to ca. 943 K.

458	FeZ3	FeZn_Zeta	Fe-Zn binary phase at ca. 93-94 at.% Zn. Stable to ca. 807 K.	FeZ3	FeZn_zeta	monoclinic C2/m FeZn13 binary phase at ca. 93-94 at.% Zn. Stable to ca. 807 K.
460	AlNi	AlNi	BCC-B2 Ordered BCC phase in Al-Ni.	B2_c	BCC_B2c	Prototype_CsCl-B2 cP2 Pm-3m (221) Ordered BCC phase in Al-Ni.
462	hP94	M38N9	prototype Mg38Sr9 : Mg38Sr9 is stable phase. hP94 : (Mg,Al)38{Sr,Ca}9	hP94	Prototype_Mg38Sr9	hP94 (Mg,Al)38{Sr,Ca}9
463	ol12	Al2N1	prototype CeCu2: Al2Sr is stable phase. ol12 : (Al,Mg)2{Sr,Ca}1	C42	Prototype_CeCu2-C42	ol12 Imma (72) Al2Sr and REZn2 are stable phases (Al,Mg,Zn,Cu,Ag)2{Ca,Sr,Ba} and (Mg,Zn)2{Ce,Dy,Eu,Er,Gd,Ho,La,Lu,Nd,Pm,Pr,Sc,Sm,Tb,Tm,Y,Yb}
464	cP64	(Al7Sr8)	cP64 (Al)7{Sr,Ca}1	cP64	Al7Sr8	cP64 (Al)7{Sr,Ca}1
467	P3m1	alpha_Mg3X2(low-T)	P-3m1 solid solution (Mg)3[Mg,Va]1{Bi,Sb,As}2	P3m1	alpha_Mg3X2(low-T)	P-3m1 solid solution (Mg)3[Mg,Va]1{Bi,Sb,As}2
468	Ia3	beta_Mg3Y2(high-T)	Ia3 solid solution (Mg)3[Mg,Va]1{Bi,Sb,As}2	Ia3	beta_Mg3X2(high-T)	Ia3 solid solution (Mg)3[Mg,Va]1{Bi,Sb,As}2
469	Mg2Q	Mg2X	Fm3m solid solution Mg2Pb-Mg2Ge	C1	Prototype_CaF2-C1	cF12 Fm-3m (225) fluorite & antiferite structure Mg2Si, Mg2Sn, Mg2Ge, Mg2Pb, NiSi2 are stable
470	Mg2X	Mg2X	solid solution: Mg2Sn-Mg2Si-Mg3Sb2(high-T, beta) complete solid solution over 800C. Fm3m.	C1	Prototype_CaF2-C1	cF12 Fm-3m (225) fluorite & antiferite structure Mg2Si, Mg2Sn, Mg2Ge, Mg2Pb, NiSi2 are stable
471	Mg3X	Mg3Sb2(low-T,	Mg3Sb2(low-T, alpha) + Mg2Si, Mg2Sn	Mg3X	Mg3Sb2(low-T,	Mg3Sb2(low-T, alpha) + Mg2Si, Mg2Sn
472	prB2	pre-B''	'FCC monoclinic' C2/m (METASTABLE PHASE)	prB2	pre-B''	'FCC monoclinic' C2/m (METASTABLE PHASE)
473	B''	B''	'non-FCC monoclinic' C2/m (METASTABLE PHASE)	B''	B''	'non-FCC monoclinic' C2/m (METASTABLE PHASE)
474	Pnma	U2	Mg4SixAly Orthorhombic Pnma (METASTABLE PHASE)	Pnma	U2	Mg4SixAly Orthorhombic Pnma (METASTABLE PHASE)
475	P_6	B'	Mg9Si7Al3(Va,Al,Si,Mg,Cu) Hexagonal P_6 (METASTABLE PHASE)	P_6	B'	Mg9Si7Al3(Va,Al,Si,Mg,Cu) Hexagonal P_6 (METASTABLE PHASE)
476	IM1	P63/mmc	(194) {Ca}[Mg](Mg,Zn)4 IM1	IM1	IM1-CaMgZn	P63/mmc (194) {Ca}Mg,Zn4 hP36
477	tp40	Al7CuX2	P4/mnc tP40 Al7Cu(Mn,Fe)2 prototype Al7CuMn2	E9a	Prototype_Al7Cu2Fe-E9a	tP40 P4/mnc (128) Al7Cu(Cu,Fe,Mn)1(Mn,Fe)1 Al7Cu2Fe and Al7CuMn2 are stable
503	D023	Al3M_D023	Phase at ca. 75 at.% Al in Al- Zr, with soluble Ti, Cr, V	D023	Prototype_ZrAl3-D023	tI16 I4/mmm (139) Al3Zr and Al3Hf(HT) with soluble Ti, Cr, V
504	L12o	Al3M_L12	AuCu3 structure	L12	Prototype_AuCu3-L12	cP4 Pm-3m (221) Al3X

505	L12b	AuCu ₃ -L12	AlRE ₃ structure	L12b	Prototype_AuCu ₃ -L12b	cP4 Pm-3m (221) AlX ₃
506	hR60	hR60	HoAl ₃ structure	hR60	Prototype_HoAl ₃	hR60 Al ₃ Ho and Al ₃ Dy are stable end-members
507	oP12	Co ₂ Si	Co ₂ Si Prototype AlRE ₂ solution	C23	Prototype_Co ₂ Si-C23	oP12 Pnma (62) AlRE ₂ (RE=Pr,Nd,Sm,Gd,Tb,Dy,Ho,Er), CuCa ₂ , SnCa ₂ , SnSr ₂ , Sr ₂ Si, Ca ₂ Si, Ni ₂ Si are stable
508	hP8	Ni ₃ Sn(Al ₃ RE)	phase (prototype Ni ₃ Sn, hP8) Al ₃ Y, Al ₃ La, Al ₃ Ce, Al ₃ Pr, Al ₃ Nd, Al ₃ Sm and Al ₃ Gd are stable phases.	D019	Prototype_Ni ₃ Sn-D019	hP8 P6 ₃ /mmc (194) La ₃ Al, Ce ₃ Al, Pr ₃ Al and Nd ₃ Al are stable Ti ₃ Al, Zr ₃ Al, Mo ₃ Al, Nb ₃ Al, Ta ₃ Al, Al ₃ Y, Al ₃ La, Al ₃ Ce, Al ₃ Pr, Al ₃ Nd, Al ₃ Sm and Al ₃ Gd are stable
509	hp8_	Ni ₃ Sn(AlRE ₃)	prototype for Al(La,Ce,Pr,Nd) ₃ AlLa ₃ , AlCe ₃ , AlPr ₃ and AlNd ₃ are stable phases.	D019	Prototype_Ni ₃ Sn-D019	hP8 P6 ₃ /mmc (194) La ₃ Al, Ce ₃ Al, Pr ₃ Al and Nd ₃ Al are stable Ti ₃ Al, Zr ₃ Al, Mo ₃ Al, Nb ₃ Al, Ta ₃ Al, Al ₃ Y, Al ₃ La, Al ₃ Ce, Al ₃ Pr, Al ₃ Nd, Al ₃ Sm and Al ₃ Gd are stable
510	tP20	Zr ₃ Al ₂	Zr ₃ Al ₂ prototype (Al,Mg) ₂ (RE) ₃ P4 ₂ /mnm	tP20	Prototype_Al ₂ Zr ₃	(Al,Mg) ₂ (RE) ₃ tP20 P4 ₂ /mnm Al ₂ Zr ₃ , Al ₂ RE ₃ (RE=Y,Gd,Tb,Dy,Ho,Er,Tm,Lu)
511	tl92	Mg ₄₁ RE ₅	(RE = La,Ce,Pr,Nd,Sm) solid solution (tl92, prototype Mg ₄₁ Ce ₅) I4/m	tl92	Prototype_Mg ₄₁ Ce ₅	Mg ₄₁ RE ₅ (RE = La,Ce,Pr,Nd,Sm) tl92 I4/m
512	hP38	M17N2	prototype Ni ₁₇ Th ₂ hP38: Mg ₁₇ Ce ₂ , Mg ₁₇ Sr ₂ , Mg ₁₇ La ₂ and Mg ₁₇ Eu are stable phase. hP38 : (Mg,Al) ₁₇ {Ce,Sr,Ca,La,Eu} ₂	hP38	Prototype_Ni ₁₇ Th ₂	hP38 P6 ₃ /mmc (Mg,Zn,Al,Fe) ₁₇ {RE,Sr,Ca} ₂ : Mg ₁₇ Ce ₂ , Mg ₁₇ Sr ₂ , Mg ₁₇ La ₂ , Mg ₁₇ Eu, Zn ₁₇ RE ₂ stable
513	cF16	Mg ₃ RE	(RE = Ce,La,Pr,Nd,Sm,Gd,Tb,Dy) solid solution (cF16, prototype BiF ₃) with limited solubility of Mg and Y	D03	Prototype_BiF ₃ -D03	cF16 Fm-3m (L2 ₁) (225) M ₃ RE (M = Mg,Zn, RE = Ce,La,Pr,Nd,Sm,Gd,Tb,Dy,Lu,Tm), gamma-Cu ₃ Sn
514	cF44	Mg ₅ RE	(RE = Sm,Gd) solid solution (cF448, prototype Mg ₅ Gd) Mg ₅ Sm and Mg ₅ Gd are stable phases.	cF44	Prototype_Mg ₅ Gd	Mg ₅ RE (RE = Sm,Gd) solid solution cF448 Mg ₅ Sm and Mg ₅ Gd are stable phases.
515	oI28	alpha-Al ₁₁ RE ₃	phase (low-T stable form) (prototype a-Al ₁₁ La ₃ , oI28, Immm) Al ₁₁ La ₃ , Al ₁₁ Ce ₃ , Al ₁₁ Pr ₃ and Al ₁₁ Nd ₃ are stable phases.	oI28	Prototype_Al ₁₁ La ₃	oI28 Immm (low-T stable form) Al ₁₁ La ₃ , Al ₁₁ Ce ₃ , Al ₁₁ Pr ₃ , Al ₁₁ Nd ₃ and several Zn ₁₁ RE ₃ are stable phases
516	tl10	beta-Al ₁₁ RE ₃	phase (high-T stable form) (prototype: Al ₄ Ba, tl10, I4/mmc) Al ₁₁ La ₃ , Al ₁₁ Ce ₃ , Al ₁₁ Pr ₃ , Al ₁₁ Nd ₃ and Al ₁₁ Sm ₃ are stable phases.	D13b	Prototype_Al ₄ Ba-D13b	Al ₁₁ RE ₃ tl10 I4/mmc (139) Al ₁₁ La ₃ , Al ₁₁ Ce ₃ , Al ₁₁ Pr ₃ , Al ₁₁ Nd ₃ and Al ₁₁ Sm ₃ are stable phases.
517	E	E-phase	cF184 Al ₁₈ Mg ₃ (Cr,Mn,Mo,Ti,Ta,V) ₂ Prototype Al ₁₈ Cr ₂ Mg ₃ Fd-3m	E	Prototype_CeCr ₂ Al ₂ 0	cF184 Fd3m (no. 227) Zn ₂₂ Zr, CeCr ₂ Al ₂₀ , Mg ₃ Cr ₂ Al ₁₈ (E-phase)

Table 2: Shorter version of Table 1 (ordered).

6.4 Nickname	6.4 Name	7.1 Nickname	7.1 Name
Liqu	Liquid	Liqu	Liquid
FCC	FCC_A1	FCC	FCC_A1
HCP	HCP_A3	HCP	HCP_A3
BCC	BCC_A2	BCC	BCC_A2
Diam	Diamond_A4	Diam	Diamond_A4
DHCP	DHCP_A3'	DHCP	DHCP_A3'
CBCC	CBCC_A12	A12	CBCC_A12
CUB1	CUB_A13	A13	CUB_A13
hP12	Laves_C14	C14	Laves_C14
cF24	Laves_C15	C15	Laves_C15
hP24	Laves_C36	C36	Laves_C36
B32	AlLi	B32	Prototype_NaTi-B32
Beta	Beta_Al3Mg2	Beta	Beta_Al3Mg2
cl58	Gamma_Al12Mg17	A12	CBCC_A12
Al5F	Al5Fe2	oC24	Al5Fe2
Al13	Al13Fe4_'Al3Fe'	Al13	Al13Fe4_'Al3Fe'
Al52	Al5Fe4	Al52	Al5Fe4
oC28	Al6Mn	D2h	Prototype_Al6Mn-D2h
hR26	Al8Mn5_D810	D810	Prototype_Al8Cr5-D810
Al4M	Al4Mn	Al4M	Al4Mn
aP15	Al11Mn4	aP15	Al11Mn4
cl26	Al12Mn	cl26	Al12Mn
AlFe	AlFeSi_alpha	Tau5	AlFeSi_alpha
AlM1	AlMnSi_alpha	AlM1	AlMnSi_alpha
AlM2	AlMnSi_beta	AlM2	AlMnSi_beta
AFMS	AlFeMnSi_alpha	AFMS	AlFeMnSi_alpha
Tau5	Tau5	Tau2	AlFeSi_gamma
Phi	Phi	Phi	Phi
MgZn	MgZn	MgZn	Mg12Zn13
cP39	Mg2Zn11	D22	Prototype_Mg2Zn11-D22
mC11	Mg2Zn3	mC11	Mg2Zn3
Tau1	AlMgZn_Tau	D8e	Prototype_Mg32(Al,Zn)49-D8e

HCP2	HCP_Zn	HCP2	HCP_Zn
Dlta	AlCu_Delta	Dlta	AlCu_delta
Epsl	AlCu_Epsilon	B81	Prototype_NiAs-B81
Eta_	AlCu_Eta	EtaL	AlCu_eta-LT
Zeta	AlCu_Zeta	Zeta	AlCu_zeta
Thta	Al2Cu_Theta	C16	Prototype_Al2Cu-C16
Gam4	CuZn_Gamma	Gam4	CuZn_gamma
D83	Gamma_D83	D83	Prototype_Cu9Al4-D83
Gam5	Gamma_H	Gam5	AlCu_gamma-HT
Tau2	AlCuZn_Tau	Tau_	AlCuZn_Tau
B2_	BCC_B2	B2	BCC_B2
tl26	Mg12RE	D2b	Prototype_Mn12Th-D2b
cF116	Mn23N6	D8a	Prototype_Mn23Th6-D8a
aP22	Al3Ca8	aP22	Al3Ca8
AB2	A(B)2	AB2	A(B)2
hR18	CaSi2	C12	Prototype_CaSi2-C12
D13	D13	D13	Prototype_Al4Ba-D13
CMS	CaMgSi	CMS	CaMgSi
CrSi	CrSi2	C40	Prototype_CrSi2-C40
D88_	D88_M5Si3	D88	Prototype_Mn5Si3-D88
B2M	B2M	C32	Prototype_AlB2-C32
BM	BM	B27	Prototype_FeB-B27
B4C	B4C	D1g	Prototype_B4C-D1g
B3Si	B3Si	B3Si	B3Si
B4M3	(Ti,Hf)3B4	D7b	Prototype_Ta3B4-D7b
B6Si	B6Si	B6Si	B6Si
BetB	Beta_Rhombo_B	Ag	Prototype_beta-B-Ag
B_nS	B_nSi	B_nS	B_nSi
Grap	Graphite	A9	Graphite_A9
Al4C	Al4C3	D71	Prototype_Al4C3-D71
Li2Z	Zn3Li2	Li2Z	Zn3Li2
ZnS	Zincblende	B3	Zincblende_B3
D022	Al3M_D022	D022	Prototype_TiAl3-D022
D019	AlM_D019	D019	Prototype_Ni3Sn-D019
AlTi	AlTi	L10	Prototype_AuCu-L10
IMYZ	I_Mg3YZn6	Fm53	I_REZn6Mg3

WMyZ	W_MgYZn3		REMOVED
M3C2	Mg3Ce2Zn3	M3C2	Mg3Ce2Zn3
oP16	Pnma	oP16	Prototype_AlEr
oC16	Cmcm	oC16	Prototype_AlCe
hR3	Sm	C19	Prototype_alpha-Sm-C19
BCT	BCT_A5	A5	BCT_A5
Cr3S	Cr3Si_A15	A15	CUB_A15
Cu6Y	Cu6Y	Cu7Y	Prototype_TbCu7
CUB2	CUB_A15	A15	CUB_A15
HSig	High_Sigma	HSig	High_Sigma
Lav1	C14-Laves	C14	Laves_C14
Lav2	C15-Laves	C15	Laves_C15
FZr2	FeZr2	C16	Prototype_Al2Cu-C16
FZr3	FeZr3	E1a	Prototype_FeZr3-E1a
Sigm	Sigma	D8b	Prototype_FeCr-D8b
SiV3	SiV3	A15	CUB_A15
SnTi	SnTi3	SnTi	Prototype_Ni3Sn-D019b
AlMo	AlMo~2	AlMo	AlMo~2
Gam3	Gamma_DO3	D03	Prototype_BiF3-D03
W2B5	W2B5	D8h	Prototype_B2W-D8h
WB_1	WB_Alpha	Bg	Prototype_MoB-Bg
WB_2	WB_Beta	B33	Prototype_CrB-B33
Cu4T	Cu4Ti	oP20	Cu4Ti
CuTi	CuTi	B11	Prototype_CuTi-B11
NiMo	NiMo	NiMo	NiMo
L12_	L12_FCC!FCC_A1	L12c	L12_FCC!FCC_A1
Teta	Teta	Teta	Ni2Si
NiT1	NiTa	NiT1	NiTa
NiT2	NiTa2	NiT2	NiTa2
Ni3M	Ni3MoTa	Ni3M	Ni3MoTa
TiNi	TiNi	B2_b	BCC_B2b
Ni3Z	Ni3Zr	D019	Prototype_Ni3Sn-D019
Ni5Z	Ni5Zr	C15c	Laves_C15c
Ni10	Ni10Zr7	Ni10	Ni10Zr7
A3Ni	Al3Ni2	D513	Prototype_Al3Ni2-D513
Mn2Z	Mn2Zr	C14	Laves_C14

D82	D82_FeZn_Gamma	D81	Prototype_Cu5Zn8-D81
FeZ1	FeZn4	FeZ1	FeZn4
FeZ2	FeZn_Delta	FeZ2	FeZn_delta
FeZ3	FeZn_Zeta	FeZ3	FeZn_zeta
AlNi	AlNi	B2_c	BCC_B2c
hP94	M38N9	hP94	Prototype_Mg38Sr9
oI12	Al2N1	C42	Prototype_CeCu2-C42
cP64	(Al7Sr8)	cP64	Al7Sr8
P3m1	alpha_Mg3X2(low-T)	P3m1	alpha_Mg3X2(low-T)
Ia3	beta_Mg3Y2(high-T)	Ia3	beta_Mg3X2(high-T)
Mg2Q	Mg2X	C1	Prototype_CaF2-C1
Mg2X	Mg2X	C1	Prototype_CaF2-C1
Mg3X	Mg3Sb2(low-T,	Mg3X	Mg3Sb2(low-T,
prB2	pre-B''	prB2	pre-B''
B''	B''	B''	B''
Pnma	U2	Pnma	U2
P_6	B'	P_6	B'
IM1	P63/mmc	IM1	IM1-CaMgZn
tp40	Al7CuX2	E9a	Prototype_Al7Cu2Fe-E9a
D023	Al3M_D023	D023	Prototype_ZrAl3-D023
L12o	Al3M_L12	L12	Prototype_AuCu3-L12
L12b	AuCu3-L12	L12b	Prototype_AuCu3-L12b
hR60	hR60	hR60	Prototype_HoAl3
oP12	Co2Si	C23	Prototype_Co2Si-C23
hP8	Ni3Sn(Al3RE)	D019	Prototype_Ni3Sn-D019
hp8_	Ni3Sn(AlRE3)	D019	Prototype_Ni3Sn-D019
tP20	Zr3Al2	tP20	Prototype_Al2Zr3
tI92	Mg41RE5	tI92	Prototype_Mg41Ce5
hP38	M17N2	hP38	Prototype_Ni17Th2
cF16	Mg3RE	D03	Prototype_BiF3-D03
cF44	Mg5RE	cF44	Prototype_Mg5Gd
oI28	alpha-Al11RE3	oI28	Prototype_Al11La3
tI10	beta-Al11RE3	D13b	Prototype_Al4Ba-D13b
E	E-phase	E	Prototype_CeCr2Al20