

Pu - Ag, Au, Cu

PuH_2 , PuH_3 , PuH_4 , $PuBe_{13}$, $PuCl_2$,
 PuF_2 , $PuMn_2$, $PuNi_2$, $PuNi_5$, 1956
 Pu_2Ni_{17} , $PuAg_3$. (красив. сюр-па)

Runnalls. O. J. C.,
Canad. J. Chem.,

1956, 34, vol. 133. - 145

VIII 4066

PuH , 1956, 9464

ММ

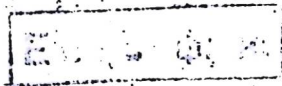
1960

PuCu₂, Pu₄Cu₁₇, PuCu₄, Pu₂Cu₁₁ (Tm)

Rhinehammer T.B., Etter D.E., Jones L.U.,
Plutonium, 1960, London, Cleaver-Hume Press
Ltd, 1961, 289-300. ~~Discuss., 312-328~~

Binary alloys. The plutonium-copper phase
diagram

~~Proc.~~ 1962, 5U104



B, 117

PuCu_x

Bp - 2130 - VIII

1961

4474 THE PLUTONIUM-COPPER PHASE DIAGRAM.
T. B. Rhinehammer, D. E. Etter, and L. V. Jones (Mound
Labs., Miamisburg, Ohio). p.289-300 of "Plutonium 1960."
London, Cleaver-Hume Press Ltd., 1961. (In English)

The constitution of the plutonium-copper binary alloy as determined by differential thermal analysis is presented. The system is characterized by two congruent melting compounds, PuCu₂ (m.p. 865°C) and Pu₄Cu₁₇ (m.p. 954°C); two incongruent melting compounds, PuCu₄ (m.p. 906°C) and Pu₂Cu₁₁ (m.p. 926°C); three eutectics, 6 at. % copper (m.p. 626°C), 70.5 at. % copper (m.p. 849°C), and 91 at. % copper (m.p. 881°C); and two peritectics at 75 at. % (m.p. 906°C) and 85.5 at. % (m.p. 926°C). Solid solution was found above 97 at. % Pu. The apparatus, the method of investigation, and the binary alloy phase diagram are discussed. (auth)

N.S.A. 1962, 16, 4.

VIII - 1168

1962

Сметаны от Pu-Ag до Pu-Sn, Pu-Cd,
Pu-In (обзор)

Blank H., Blossmann G., Kemmerich M.

Rept. No. KFK-105, 1962, 253 pp.

(Bibliogr. sec. Intern. At. Energy
Agency, 1965, 14, 17)

М.Б.В.10
ср. 1966, 65, №7, 9202 &

PuCu_x
PuAg_x

Johnson T.

1964

термодинамическа система
и, Th и Pu с гр. метал-
лами.

(Cu. Pu Al_x) I

Cucyemur c Pu - Ag - emalbor

1965

Rumri

ren unogp.
myone

Binary and multicomponent systems with plutonium. I. Pu-Ag
ature search, phase diagrams, and data. I. Pu-Ag
H. Blank, G. Brossmann, and M. Kemmerich. Rept. N
105. 253 pp.(1962)(Ger); cf. CA 62, 10170b. A
From Bibliog. Ser., Intern. At. Energy Agency 14, 17(19

C.A. 1966. 65. 7
98024

PuAuX (η - 38 at % Au; ξ - 50% Au, VIII 10:
a - 58% Au; τ - 66% Au, χ - 70% Au, 1965
 λ - 77% Au; μ - 81% Au; $\bar{\nu}$ 85 at % Au)
 Pu_3Ga , Pu_5Ga_3 ; $PuGa$; $PuGa_2$; $PuGa_3$;
 $PuGa_4$; Pu_3Pu Крист. comp - pa T + z
Hocheid B., Tanon A., Bedere S.,
Despres J., Kay S., Micard F., Plutoni-
um 1965, London, Chapman and
Hall, 1967, 321, Discuss. 450
D.M. 1968

$TuSe$ (41-43 ат. до Se); $Pu_{19}Zr$; $TuAg_3$; VIII 304/1967
 $PuRu_x$; $PuRh_x$; $TuPd_x$; $PuPt_x$; $PuCu_x$; $TuCu_x$;
 $TuAu_x$; (Срост. стр-ра Tu)

Кутайцев В.И., Медоварев Н.М., Андриша-
нов И.А., Котев В.И., Лебедев И.Т., Тарнова
В.И., Безносикова А.В., Кружинов А.А., Петров
П.И., Смирничкай В.С., Атом. энергия
1964, 23, №, 511

ИИ 1968

Б, А, М

1968

PuCu₂

Pu₄Cu₁₁

~~nickel~~

25652p Application of differential thermal analysis to the study of phase equilibria in metal systems. Etter, Don E. Tucker, Philip A.; Wittenberg, Layton J. (Mound Lab., Monsanto Res. Corp., Miamisburg, Ohio). *Therm. Anal., Proc. Int. Conf.*, 2nd 1968 (Pub. 1969), 2, 829-50 (Eng). Edited by Schwenker, R. F., Jr. and Garn, P. D. Academic Press: New York, N.Y. App. employing Chromel-Alumel thermocouples for use from ambient temp. to 1000° holds samples in sealed Ta capsules. Detailed interpretations of thermograms are presented for selected compns. of a hypothetical binary phase diagram including congruently and incongruently melting compds. and solid soln., eutectic, and liquidus reactions. The Pu-Cu system was determined by DTA. The stoichiometry of the congruently melting compds. PuCu₂ and Pu₄Cu₁₁ was established completely by DTA. P. D. Garn

CIA. 1980.

72:6

PuCu₂, Pu₄Cu₁₁ (T_m) 6 VIII 3569 1969

Etter D. E., Tucker P. A., Wittenberg.
Therm. Anal., Proc. Ind. Conf., 2nd 1968

(Pub. 1969) 2, 829-50.
Application of differential thermal
analysis to the study of phase
equilibria in metal systems.
6 in 76 CA, 1470, 72, 45, 25652

1972

Pu Cu_2 , Pu Cu_4 , $\text{Pu}(\text{CuGa})_3$, $\text{Pu Ni}_2\text{Ga}$, Pu Ni Ga

VIII 5264 (Журнал. стр-ра)

Pons F, Barbe B, Roux C. J. Appl. Crystallogr, 1972, 5, n1, 47-50.

Определение пермодов. элементар-
ных ячеек некоторых соединений
соединений Pu-Cu, Pu-Ga-Cu и Pu-Ga-Ni.

ЖМ, 1972, 7 и 43



9

М

Au-Pu

1986

/106: 183406m The Au-Pu (gold-plutonium) system. Okamoto, H.; Massalski, T. B.; Peterson, D. E. (Carnegie-Mellon Univ., Pittsburgh, PA USA). *Bull. Alloy Phase Diagrams* 1986, 7(6), 525-8, 579-80 (Eng). A Au-Pu phase diagram is given based on literature data and also calcs. from the thermodyn. model. Crystal lattice parameters for various phases are also given.

(gray group)

C.A. 1987, 106, N22