

Atomic Mass of D (AMU) = 2.0141017779 MeV/c per AMU = 931.49402823 Atomic mass of D (MeV/c)= 1876.1237783

Element =	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Cs	Ba	La	Ce
Z =	46	47	48	49	50	51	52	53	54	55	56	57	58
D added, x =	0	1	2	3	4	5	6	7	8	9	10	11	12
Atomic Number	102	104	106	108	110	112	114	116	118	120	122	124	126
A =	104	106	108	110	112	114	116	118	120	122	124	126	128
	105	107	109	111	113	115	117	119	121	123	125	127	129
	106	108	110	112	114	116	118	120	122	124	126	128	130
	108	110	112	114	116	118	120	122	124	126	128	130	132
	110	112	114	116	118	120	122	124	126	128	130	132	134
Atomic Weight (AMU) =	101.905608	103.908629	105.906458	107.909698	109.904870	111.912398	113.912089	115.916809	117.916179	119.920677	121.919904	123.924574	125.923971
	103.904035	105.906669	107.904183	109.907165	111.904818	113.909269	115.908460	117.913074	119.911784	121.916113	123.915094	125.919513	127.918911
	104.905084	106.905097	108.904982	110.905103	112.904346	114.906598	116.908645	118.910074	120.911462	122.912996	124.914473	126.916375	128.918102
	105.903483	107.905956	109.903002	111.905532	113.902779	115.906794	117.905828	119.910048	121.908368	123.912258	125.911250	127.915585	129.914736
	107.903894	109.906107	111.902758	113.904914	115.901741	117.905529	119.904020	121.907589	123.905893	125.909452	127.908318	129.912369	131.911460
	109.905152	111.907005	113.903359	115.905260	117.901603	119.905072	121.903044	123.906210	125.904274	127.907749	129.906321	131.910101	133.908925
Atomic Weight (MeV/c) =	94924.47	96790.27	98651.23	100517.24	102375.73	104245.73	106108.43	107975.82	109838.22	111705.39	113567.66	115435.00	117297.43
	96785.99	98651.43	100512.10	102377.87	104238.67	106105.80	107968.04	109835.32	111697.11	113564.13	115426.17	117293.27	119155.70
	97718.46	99581.46	101444.34	103307.44	105169.72	107034.81	108899.70	110764.02	112628.30	114492.72	116357.09	118221.85	120086.44
	98648.46	100513.75	102373.99	104239.34	106099.76	107966.49	109828.57	111695.49	113556.92	115423.53	117285.58	119152.60	121014.80
	100511.83	102376.88	104236.75	106101.75	107961.78	109828.30	111689.88	113556.19	115417.60	117283.90	119145.83	121012.60	122874.74
	102375.99	104240.71	106100.30	107965.06	109824.64	111690.86	113551.96	115417.89	117279.08	119145.30	121006.96	122873.47	124735.36
Input Atomic Weight (MeV/c) =	94924.47	96800.59	98676.71	100552.84	102428.96	104305.08	106181.21	108057.33	109933.46	111809.58	113685.70	115561.83	117437.95
	96785.99	98662.11	100538.24	102414.36	104290.48	106166.61	108042.73	109918.85	111794.98	113671.10	115547.23	117423.35	119299.47
	97718.46	99594.58	101470.71	103346.83	105222.95	107099.08	108975.20	110851.33	112727.45	114603.57	116479.70	118355.82	120231.94
	98648.46	100524.59	102400.71	104276.83	106152.96	108029.08	109905.20	111781.33	113657.45	115533.58	117409.70	119285.82	121161.95
	100511.83	102387.96	104264.08	106140.20	108016.33	109892.45	111768.58	113644.70	115520.82	117396.95	119273.07	121149.19	123025.32
	102375.99	104252.12	106128.24	108004.36	109880.49	111756.61	113632.74	115508.86	117384.98	119261.11	121137.23	123013.35	124889.48
Surplus Mass/Energy (MeV) =	0.00	10.32	25.48	35.60	53.23	59.35	72.78	81.52	95.24	104.18	118.04	126.83	140.52
	0.00	10.68	26.13	36.49	51.81	60.80	74.69	83.53	97.87	106.97	121.06	130.08	143.77
	0.00	13.12	26.37	39.39	53.23	64.27	75.50	87.30	99.14	110.85	122.61	133.98	145.50
	0.00	10.83	26.72	37.50	53.20	62.59	76.63	85.83	100.54	110.05	124.12	133.22	147.15
	0.00	11.07	27.33	38.46	54.55	64.16	78.70	88.51	103.22	113.04	127.24	136.60	150.58
	0.00	11.41	27.94	39.31	55.85	65.75	80.78	90.96	105.90	115.80	130.27	139.88	154.11

Note: Stable isotope masses are actual values and are shown in bold.

Note: Input Atomic Weight = (mass of Pd isotope in MeV/c) + (D added)*(mass of deuteron in MeV/c)

Unstable product nuclei produce additional surplus energy (not shown) converting to lower mass products in the process.

Element - Z =	Pd 46	Ag 47	Cd 48	In 49	Sn 50	Sb 51	Te 52	I 53	Xe 54	Cs 55	Ba 56	La 57	Ce 58
D added, x =	0	1	2	3	4	5	6	7	8	9	10	11	12
Deflated	0.00	13.26	26.92	40.98	55.44	70.29	85.53	101.15	117.16	133.54	150.29	167.42	184.91
Electron	0.00	13.17	26.75	40.73	55.11	69.88	85.04	100.58	116.50	132.81	149.48	166.53	183.94
Post Fusion	0.00	13.13	26.67	40.61	54.95	69.67	84.79	100.30	116.18	132.44	149.08	166.09	183.47
Binding	0.00	13.09	26.59	40.49	54.78	69.47	84.55	100.02	115.86	132.09	148.69	165.66	183.00
Energy	0.00	13.01	26.43	40.25	54.47	69.08	84.08	99.47	115.24	131.39	147.91	164.80	182.07
(MeV=)	0.00	12.93	26.27	40.02	54.16	68.69	83.62	98.93	114.62	130.70	147.15	163.97	181.16

Note: Deflated Electelectron binding energy computed using $E = x*(Z-1)*(1.44E-9 \text{ ev m})/r$
 [Initial average electron nuclear radius r estimated using $r = 0.85*(1.25E-15 \text{ m}) * A^{(1/3)}$]

Initial	0.00	-2.94	-1.44	-5.38	-2.21	-10.94	-12.75	-19.64	-21.92	-29.35	-32.25	-40.59	-44.39
Mass/Energy	0.00	-2.49	-0.62	-4.24	-3.29	-9.07	-10.34	-17.05	-18.64	-25.84	-28.43	-36.45	-40.17
Excess	0.00	-0.01	-0.30	-1.22	-1.71	-5.41	-9.30	-12.99	-17.04	-21.59	-26.47	-32.12	-37.97
(MeV) =	0.00	-2.26	0.13	-2.99	-1.59	-6.88	-7.92	-14.18	-15.33	-22.04	-24.56	-32.44	-35.85
	0.00	-1.94	0.90	-1.79	0.08	-4.92	-5.38	-10.96	-12.01	-18.34	-20.67	-28.20	-31.49
	0.00	-1.52	1.67	-0.71	1.69	-2.94	-2.84	-7.97	-8.72	-14.89	-16.88	-24.08	-27.04