

Ne-21 measurements from 04-AV-PIT9. Complete step-degassing results. Measured in 2008-09.

Sample name	Aliquot	Aliquot weight (g)	Heating temperature (deg C)	Heating time (hr)	Total ²⁰ Ne released ^d (10 ⁹ atoms)	Total ²¹ Ne released ^d (10 ⁶ atoms)	²¹ Ne / ²⁰ Ne ^e (10 ⁻³)	²² Ne / ²⁰ Ne ^e (10 ⁻³)	Cosmogenic ²¹ Ne ⁵ This heating step (10 ⁹ atoms g ⁻¹)	Cosmogenic ²¹ Ne as % of ²¹ Ne released in this heating step	Percent of total cosmogenic ²¹ Ne released in this step	Total cosmogenic ²¹ Ne (10 ⁹ atoms g ⁻¹)
Pit 9												
PIT9-SSS	a	0.14779	400	0.3	2.4385 +/- 0.028	23.521 +/- 0.844	9.532 +/- 0.179	107.7 +/- 1.1	108.86 +/- 3.21	68	65	168.5 +/- 4.1
			700	0.3	3.1453 +/- 0.0496	17.321 +/- 0.643	5.439 +/- 0.1	101.7 +/- 1.2	52.98 +/- 2.3	45	31	
			1100	0.1	1.1141 +/- 0.0191	4.336 +/- 0.204	3.844 +/- 0.151	106.5 +/- 2.3	6.7 +/- 1.15	23	4	
	b	0.1421	400	0.3	1.8369 +/- 0.0288	18.098 +/- 0.713	9.733 +/- 0.207	105.6 +/- 1.3	87.89 +/- 3.02	69	54	163.6 +/- 4.0
			700	0.3	3.7902 +/- 0.059	21.04 +/- 0.755	5.487 +/- 0.078	101.2 +/- 0.9	67.69 +/- 2.33	46	41	
			1100	0.3	0.8176 +/- 0.0134	3.604 +/- 0.191	4.354 +/- 0.187	105.8 +/- 2.4	8.06 +/- 1.09	32	5	
PIT9-SQTZ	a	0.11437	400	0.3	1.1259 +/- 0.0177	15.481 +/- 0.626	13.583 +/- 0.382	115 +/- 2.4	104.98 +/- 4.12	78	67	157.1 +/- 5.3
			700	0.3	3.1359 +/- 0.0328	14.723 +/- 0.562	4.635 +/- 0.109	101.1 +/- 1.2	46.12 +/- 3.03	36	29	
			1100	0.3	1.085 +/- 0.0274	3.94 +/- 0.194	3.589 +/- 0.163	107.2 +/- 3.2	6 +/- 1.56	17	4	
	b	0.13193	400	0.3	0.8279 +/- 0.0156	13.955 +/- 0.529	16.641 +/- 0.45	115 +/- 2.7	86.17 +/- 3.27	81	57	150.8 +/- 4.4
			700	0.3	3.8108 +/- 0.0396	19.996 +/- 0.715	5.186 +/- 0.099	104.3 +/- 0.9	64.58 +/- 2.95	43	43	
			1100	0.3	1.1589 +/- 0.0214	3.576 +/- 0.178	3.047 +/- 0.12	102.7 +/- 2.2	-	-	-	
PIT9-1-4	a	0.13915	650	0.3	4.2495 +/- 0.094	20.911 +/- 0.891	4.882 +/- 0.071	101.9 +/- 0.8	58.95 +/- 2.54	39	91	65.1 +/- 2.8
			1100	0.3	1.2146 +/- 0.021	4.469 +/- 0.218	3.66 +/- 0.129	102.2 +/- 2.1	6.14 +/- 1.13	19	9	
	b	0.15227	400	0.3	1.0662 +/- 0.0198	9.002 +/- 0.383	8.328 +/- 0.264	112 +/- 2.9	37.73 +/- 1.99	64	52	72.3 +/- 3.1
			700	0.3	3.298 +/- 0.0446	14.627 +/- 0.551	4.366 +/- 0.093	101.2 +/- 1	30.59 +/- 2.06	32	42	
			1100	0.3	0.6855 +/- 0.0175	2.667 +/- 0.174	3.834 +/- 0.234	109.8 +/- 3.6	3.95 +/- 1.06	23	5	
	c	0.15522	400	0.3	1.7371 +/- 0.0272	11.174 +/- 0.475	6.661 +/- 0.157	103 +/- 2	41.58 +/- 1.88	55	61	67.8 +/- 3.0
			700	0.3	3.0527 +/- 0.0427	12.783 +/- 0.5	4.122 +/- 0.1	104.6 +/- 1.2	22.95 +/- 1.99	28	34	
			1100	0.3	0.9603 +/- 0.0175	3.39 +/- 0.204	3.48 +/- 0.184	105.4 +/- 2.4	3.23 +/- 1.14	15	5	
	PIT9-32-36	a	0.14361	650	0.3	4.6144 +/- 0.102	22.589 +/- 0.959	4.857 +/- 0.067	101.2 +/- 0.8	61.22 +/- 2.56	39	90
1100				0.3	1.4041 +/- 0.0333	4.788 +/- 0.27	3.389 +/- 0.138	102 +/- 1.5	4.22 +/- 1.36	13	6	
1100				0.3	0.1245 +/- 0.0169	0.721 +/- 0.102	5.759 +/- 1.105	126.6 +/- 20	2.47 +/- 0.79	49	4	
b		0.13835	400	0.3	1.2113 +/- 0.0218	8.433 +/- 0.36	6.893 +/- 0.195	105.6 +/- 2.1	34.57 +/- 1.83	57	52	66.4 +/- 2.5
			700	0.3	3.1778 +/- 0.0435	14.008 +/- 0.493	4.341 +/- 0.074	102.5 +/- 1.1	31.85 +/- 1.75	31	48	
			1100	0.3	0.7757 +/- 0.0165	2.468 +/- 0.178	3.135 +/- 0.211	105.8 +/- 2.7	-	-	-	
c		0.17388	400	0.3	1.6284 +/- 0.025	11.241 +/- 0.484	6.801 +/- 0.19	109.4 +/- 1.5	36.11 +/- 1.87	56	55	65.5 +/- 2.8
			700	0.3	3.9171 +/- 0.0736	15.995 +/- 0.628	4.023 +/- 0.079	99.2 +/- 1.1	24.05 +/- 1.85	26	37	
			1100	0.3	1.0273 +/- 0.0197	4.018 +/- 0.208	3.86 +/- 0.151	102.4 +/- 2.1	5.34 +/- 0.9	23	8	
PIT9-60-65	a	0.16205	650	0.3	4.5653 +/- 0.1011	22.08 +/- 0.96	4.806 +/- 0.079	101.8 +/- 1	52.23 +/- 2.53	38	90	58.0 +/- 2.8
			1100	0.3	1.4399 +/- 0.0244	5.23 +/- 0.265	3.61 +/- 0.137	103.6 +/- 2	5.81 +/- 1.22	18	10	
	b	0.14448	400	0.3	1.2423 +/- 0.0216	8.448 +/- 0.36	6.741 +/- 0.187	108.1 +/- 1.9	32.64 +/- 1.71	56	50	65.9 +/- 3.0
			700	0.3	3.2293 +/- 0.0435	13.96 +/- 0.531	4.257 +/- 0.094	102 +/- 1.1	29.13 +/- 2.15	30	44	
			1100	0.3	0.8739 +/- 0.0183	3.229 +/- 0.197	3.641 +/- 0.2	102.5 +/- 2.6	4.14 +/- 1.22	19	6	
	c	0.14667	400	0.3	1.6776 +/- 0.0246	10.23 +/- 0.4	5.998 +/- 0.15	106.3 +/- 1.8	34.89 +/- 1.79	50	59	58.7 +/- 3.1
			700	0.3	2.8863 +/- 0.0523	11.934 +/- 0.527	4.075 +/- 0.115	99.4 +/- 1	22.04 +/- 2.3	27	38	
			1100	0.3	0.7543 +/- 0.0155	2.516 +/- 0.189	3.293 +/- 0.222	101.8 +/- 2.3	1.72 +/- 1.15	10	3	

PIT9-84-90	a	0.15023	650	0.3	3.9992 +/- 0.0888	18.908 +/- 0.839	4.698 +/- 0.088	101.9 +/- 0.7	46.46 +/- 2.57	37	88	52.9 +/- 2.7
			1100	0.3	1.2742 +/- 0.0291	4.771 +/- 0.234	3.721 +/- 0.111	98.3 +/- 1.7	6.48 +/- 0.95	20	12	
	b	0.14858	400	0.3	1.3459 +/- 0.0225	8.395 +/- 0.38	6.183 +/- 0.193	109.6 +/- 2.2	29.32 +/- 1.83	52	52	55.9 +/- 2.5
			700	0.3	3.5 +/- 0.0778	13.922 +/- 0.537	3.922 +/- 0.057	101 +/- 1.1	22.77 +/- 1.43	24	41	
			1100	0.3	0.7934 +/- 0.0202	2.957 +/- 0.16	3.669 +/- 0.156	97.3 +/- 2.4	3.81 +/- 0.84	19	7	
	c	0.168	400	0.3	1.4202 +/- 0.0214	9.488 +/- 0.408	6.571 +/- 0.203	104 +/- 1.8	30.65 +/- 1.79	54	65	46.8 +/- 3.0
			700	0.3	3.1877 +/- 0.0421	12.317 +/- 0.557	3.808 +/- 0.123	102.1 +/- 1.2	16.17 +/- 2.36	22	35	
			1100	0.3	0.9633 +/- 0.0168	2.945 +/- 0.196	3.019 +/- 0.179	99.2 +/- 2.3	-	-	-	

Notes:

² Computed by comparison to ²⁰Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of ²⁰Ne signal in this analysis and the reproducibility of the air pipette signal

³ Computed by comparison to ²¹Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of ²¹Ne signal in this analysis and the reproducibility of the air pipette signal

⁴ Isotope ratio measured internally during each analysis: does not involve normalization to the Ne isotope signals in the air pipettes.

⁵ Analyses where cosmogenic ²¹Ne was not distinguishable from zero at 1 sigma are not shown. Cosmogenic ²¹Ne concentrations were calculated by normalization to either the ²⁰Ne or ²¹Ne signal in the air pipettes, depending on which method yielded better precision.