

Ne-21 measurements from 04-AV-PIT6. Complete step-degassing results. Measured in 2008-09.

Sample name	Aliquot	Aliquot weight (g)	Heating temperature (deg C)	Heating time (hr)	Total <sup>20</sup> Ne released <sup>2</sup> (10 <sup>9</sup> atoms)	Total <sup>21</sup> Ne released <sup>3</sup> (10 <sup>6</sup> atoms)	<sup>21</sup> Ne / <sup>20</sup> Ne <sup>4</sup> (10 <sup>-3</sup> )	<sup>22</sup> Ne / <sup>20</sup> Ne <sup>4</sup> (10 <sup>-3</sup> )	Cosmogenic <sup>21</sup> Ne <sup>5</sup> This heating step (10 <sup>6</sup> atoms g <sup>-1</sup> )	Cosmogenic <sup>21</sup> Ne as % of <sup>21</sup> Ne released in this heating step	Percent of total cosmogenic <sup>21</sup> Ne released in this step	Total cosmogenic <sup>21</sup> Ne (10 <sup>6</sup> atoms g <sup>-1</sup> )
Pit 6												
PIT6-SQZT	a	0.14608	400	0.3	1.45 +/- 0.0223	30.182 +/- 1.1720	20.409 +/- 0.332	118 +/- 2.3	173.85 +/- 4.26	84	67.3	258.41 +/- 5.1
			700	0.3	3.5371 +/- 0.0404	22.698 +/- 0.9020	6.289 +/- 0.096	105.3 +/- 1.1	80.93 +/- 2.51	52	31.3	
			1100	0.3	0.9029 +/- 0.0163	3.266 +/- 0.1960	3.544 +/- 0.175	109.7 +/- 2.8	3.63 +/- 1.09	16	1.4	
PIT6-2-5	a	0.15397	400	0.3	1.1207 +/- 0.0169	19.736 +/- 0.7970	17.263 +/- 0.339	123.6 +/- 2.1	104.5 +/- 2.94	82	60.8	171.96 +/- 3.7
			700	0.3	2.5745 +/- 0.0397	17.425 +/- 0.7180	6.632 +/- 0.098	102.5 +/- 1	61.64 +/- 1.91	54	35.8	
			1100	0.3	0.4333 +/- 0.0129	2.221 +/- 0.1670	5.019 +/- 0.356	114.2 +/- 5.4	5.82 +/- 1.02	40	3.4	
	b	0.16162	400	0.3	1.9201 +/- 0.0263	25.863 +/- 1.0350	13.22 +/- 0.247	115.8 +/- 1.5	122.36 +/- 3.39	76	67.5	181.4 +/- 4.3
			700	0.3	2.7852 +/- 0.0447	17.494 +/- 0.7550	6.177 +/- 0.133	105.4 +/- 1.2	55.66 +/- 2.47	51	30.7	
			1100	0.3	0.6219 +/- 0.014	2.425 +/- 0.1700	3.834 +/- 0.234	102.5 +/- 3.2	3.38 +/- 0.91	23	1.9	
PIT6-18-22	a	0.15066	400	0.3	2.0191 +/- 0.0248	21.498 +/- 0.8930	10.421 +/- 0.201	111.1 +/- 1.4	100.38 +/- 2.97	70	66.1	151.86 +/- 4.1
			700	0.3	3.3133 +/- 0.0387	16.986 +/- 0.7410	5.027 +/- 0.116	104.5 +/- 1	45.65 +/- 2.62	40	30.1	
			1100	0.3	0.9059 +/- 0.0165	3.621 +/- 0.2040	3.925 +/- 0.178	105.3 +/- 2.7	5.83 +/- 1.08	24	3.8	
	b	0.13805	400	0.3	1.6186 +/- 0.0259	18.025 +/- 0.7610	10.947 +/- 0.265	111.8 +/- 1.9	94 +/- 3.46	72	60.5	155.49 +/- 4.3
			700	0.3	3.2139 +/- 0.0494	17.009 +/- 0.7150	5.204 +/- 0.092	103.6 +/- 0.8	52.46 +/- 2.29	43	33.7	
			1100	0.3	0.8178 +/- 0.0145	3.725 +/- 0.2220	4.478 +/- 0.209	100.6 +/- 2.5	9.03 +/- 1.25	33	5.8	
PIT6-30-35	a	0.02803	400	0.3	0.4038 +/- 0.0144	4.466 +/- 0.2920	10.824 +/- 0.689	116.1 +/- 6	113.73 +/- 10.77	71	85.1	133.7 +/- 12.5
			700	0.3	0.4048 +/- 0.0128	1.635 +/- 0.1390	3.96 +/- 0.324	116.6 +/- 4.9	14.52 +/- 4.72	25	10.9	
			1100	0.3	0.0387 +/- 0.0173	0.267 +/- 0.1060	6.767 +/- 4.048	137.4 +/- 70.4	5.45 +/- 4.23	57	4.1	
PIT6-33-37	a	0.14301	400	0.3	2.0538 +/- 0.0301	20.376 +/- 0.8330	9.71 +/- 0.19	114.2 +/- 1.7	97.31 +/- 3.09	68	78.5	124.01 +/- 3.8
			700	0.3	3.0295 +/- 0.0342	12.516 +/- 0.5410	4.056 +/- 0.093	102.6 +/- 1.1	23.33 +/- 1.98	27	18.8	
			1100	0.3	0.5674 +/- 0.0163	2.197 +/- 0.1470	3.806 +/- 0.237	111.4 +/- 4.1	3.37 +/- 0.95	22	2.7	
	b	0.16224	400	0.3	1.815 +/- 0.0265	20.071 +/- 0.8090	10.871 +/- 0.213	114.9 +/- 1.9	88.84 +/- 2.72	72	81.1	109.5 +/- 3.3
			700	0.3	3.4735 +/- 0.052	13.402 +/- 0.5770	3.793 +/- 0.076	102.2 +/- 0.7	17.92 +/- 1.65	22	16.4	
			1100	0.3	0.6042 +/- 0.0189	2.273 +/- 0.1580	3.691 +/- 0.238	99.1 +/- 3.8	2.74 +/- 0.89	20	2.5	
PIT6-66-69	a	0.16105	400	0.3	2.2236 +/- 0.0372	18.223 +/- 0.7520	8.037 +/- 0.176	110.6 +/- 1.8	70.37 +/- 2.71	62	76.2	92.33 +/- 3.1
			700	0.3	3.1254 +/- 0.0463	12.715 +/- 0.5290	3.996 +/- 0.069	99.7 +/- 0.8	20.19 +/- 1.37	26	21.9	
			1100	0.3	0.5652 +/- 0.0112	1.991 +/- 0.1490	3.462 +/- 0.228	100.1 +/- 3.4	1.77 +/- 0.8	14	1.9	
	b	0.15126	400	0.3	2.5228 +/- 0.0312	15.752 +/- 0.6530	6.126 +/- 0.127	101.5 +/- 1.2	53.01 +/- 2.22	51	68.6	77.31 +/- 2.9
			700	0.3	3.2067 +/- 0.0536	12.731 +/- 0.5490	3.894 +/- 0.074	103.2 +/- 1	19.89 +/- 1.61	24	25.7	
			1100	0.3	0.5777 +/- 0.0196	2.425 +/- 0.1650	4.11 +/- 0.262	108.8 +/- 4.6	4.41 +/- 1.01	28	5.7	
PIT6-84-88	a	0.16903	400	0.3	3.1397 +/- 0.0394	18.819 +/- 0.7430	5.883 +/- 0.098	105.8 +/- 1	54.51 +/- 1.95	49	76.5	71.21 +/- 3.0
			700	0.3	3.4181 +/- 0.0577	12.584 +/- 0.5930	3.62 +/- 0.104	100.6 +/- 1.1	13.42 +/- 2.13	18	18.8	
			1100	0.3	0.6976 +/- 0.0178	2.661 +/- 0.1730	3.75 +/- 0.218	108 +/- 3.4	3.28 +/- 0.91	21	4.6	
	b	0.14328	400	0.3	2.0215 +/- 0.027	13.12 +/- 0.5860	6.364 +/- 0.169	104.5 +/- 1.4	48.22 +/- 2.48	53	78.5	61.39 +/- 3.5
			700	0.3	3.2841 +/- 0.0533	11.568 +/- 0.5570	3.455 +/- 0.097	101.3 +/- 0.8	11.4 +/- 2.23	14	18.6	
			1100	0.3	0.4668 +/- 0.0144	1.669 +/- 0.1380	3.499 +/- 0.273	111.8 +/- 4.5	1.77 +/- 0.9	15	2.9	

Notes:

<sup>2</sup> Computed by comparison to <sup>20</sup>Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of <sup>21</sup>Ne signal in this analysis and the reproducibility of the air pipette signal

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

<sup>4</sup> Isotope ratio measured internally during each analysis; does not involve normalization to the Ne isotope signals in the air pipettes.

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