

Age spectrum data Cameco Sep-05 Processed by W.J. Dunlap

Lambda K40 = 5.54E-10 J = 0.0067956

Sample MRD0101-1109 Muscovite

Temp (C)	Ar36 (mol)	Ar37 (mol)	Ar39 (mol)	Ar40 (mol)	%Ar40*	Ar40*/Ar39(K)	Cumulate Ar39(%)	Calculated_Age (Ma±1s.d.)
600	7.413E-17	1.687E-17	1.478E-15	2.962E-13	92.6	185.6	0.98	1473
650	5.341E-17	1.457E-16	1.741E-15	4.160E-13	96.2	229.8	2.14	1698
700	3.545E-17	6.169E-19	3.458E-15	9.340E-13	98.9	267.1	4.43	1868
750	4.089E-17	1.552E-17	6.693E-15	1.701E-12	99.3	252.3	8.88	1802
770	2.852E-17	6.179E-19	5.873E-15	1.537E-12	99.4	260.2	12.78	1838
790	3.310E-17	6.183E-19	6.470E-15	1.686E-12	99.4	259.1	17.08	1833
810	4.736E-15	8.341E-18	7.571E-15	3.346E-12	58.2	257.1	22.11	1824
830	4.792E-17	1.665E-18	9.737E-15	2.503E-12	99.4	255.6	28.58	1817
850	7.780E-17	1.667E-18	1.446E-14	3.728E-12	99.4	256.2	38.18	1820
860	6.827E-17	1.512E-18	1.272E-14	3.289E-12	99.4	256.9	46.63	1823
870	5.178E-17	1.805E-17	9.580E-15	2.472E-12	99.4	256.4	53.00	1821
885	5.261E-17	1.671E-18	8.560E-15	2.218E-12	99.3	257.3	58.68	1825
905	5.002E-17	1.674E-18	7.944E-15	2.042E-12	99.3	255.2	63.96	1815
925	6.213E-17	3.955E-17	6.294E-15	1.622E-12	98.9	254.8	68.14	1814
955	8.486E-17	6.877E-18	6.352E-15	1.650E-12	98.5	255.7	72.36	1818
995	1.375E-16	1.703E-18	1.154E-14	3.028E-12	98.6	258.8	80.03	1831
1040	1.541E-16	3.149E-18	2.586E-14	6.665E-12	99.3	256.0	97.20	1819
1060	6.196E-17	1.727E-18	3.929E-15	1.021E-12	98.2	255.2	99.81	1815
1100	7.328E-17	1.728E-18	2.426E-16	7.744E-14	72.0	230.0	99.97	1699
1150	9.326E-17	6.130E-18	1.754E-17	2.811E-14	2.00	31.61	99.99	351.3
1350	4.419E-16	1.731E-18	2.173E-17	1.323E-13	1.30	78.99	100.00	775.7
Total	6.459E-15	2.771E-16	1.505E-13	4.039E-11		255.6		1817

Lambda K40 = 5.54E-10 J = 0.006801

Sample MRD0104-1154 Muscovite

Temp (C)	Ar36 (mol)	Ar37 (mol)	Ar39 (mol)	Ar40 (mol)	%Ar40*	Ar40*/Ar39(K)	Cumulate Ar39(%)	Calculated_Age (Ma±1s.d.)
650	4.637E-16	1.972E-17	1.755E-15	5.145E-13	73.4	215.0	2.03	1622
700	5.507E-17	1.006E-17	1.351E-15	3.639E-13	95.5	257.4	3.59	1821
750	4.307E-17	7.055E-19	2.433E-15	6.380E-13	98.0	257.0	6.41	1819
780	3.873E-17	7.328E-18	2.803E-15	7.276E-13	98.4	255.4	9.66	1812
800	5.584E-17	7.068E-19	3.431E-15	8.966E-13	98.2	256.5	13.63	1817
820	4.365E-17	1.045E-17	6.072E-15	1.569E-12	99.2	256.2	20.65	1816
840	1.184E-15	1.612E-16	9.250E-15	2.697E-12	87.0	253.8	31.36	1805
860	4.882E-17	3.316E-17	9.054E-15	2.341E-12	99.4	257.0	41.84	1819
880	2.792E-17	1.859E-18	6.633E-15	1.711E-12	99.5	256.7	49.52	1818
900	2.943E-17	1.861E-18	5.048E-15	1.300E-12	99.3	255.7	55.36	1813
920	3.311E-17	1.171E-17	3.528E-15	9.112E-13	98.9	255.4	59.44	1812
940	3.826E-17	1.863E-18	2.662E-15	6.976E-13	98.4	257.8	62.52	1823
960	3.638E-17	1.864E-18	2.324E-15	6.149E-13	98.2	260.0	65.21	1833
980	2.899E-17	7.171E-19	2.611E-15	6.819E-13	98.7	257.8	68.24	1823
1000	4.787E-17	7.175E-19	3.985E-15	1.040E-12	98.6	257.4	72.85	1821
1020	5.088E-17	5.971E-19	6.364E-15	1.648E-12	99.1	256.6	80.21	1818
1040	3.007E-16	4.970E-18	7.573E-15	2.031E-12	95.6	256.4	88.98	1817
1060	1.781E-17	7.196E-19	3.041E-15	7.757E-13	99.3	253.4	92.50	1803
1100	5.419E-17	7.200E-19	5.777E-15	1.515E-12	98.9	259.5	99.19	1831
1150	6.671E-17	7.205E-19	6.631E-16	1.880E-13	89.5	253.8	99.95	1805
1350	3.102E-16	7.213E-19	4.077E-17	9.441E-14	2.90	67.73	100.00	681.4
Total	2.975E-15	2.724E-16	8.640E-14	2.296E-11		255.5		1813

Lambda K40 = 5.54E-10 J = 0.006776

Sample NAND0207-1760 Muscovite

Temp (C)	Ar36 (mol)	Ar37 (mol)	Ar39 (mol)	Ar40 (mol)	%Ar40*	Ar40*/Ar39(K)	Cumulate Ar39(%)	Calculated_Age (Ma±1s.d.)
650	2.613E-15	2.981E-15	1.387E-15	8.95E-13	13.8	89.10	11.26	851.1
700	1.039E-16	9.736E-16	6.321E-16	1.76E-13	82.6	230.1	16.40	1693
750	6.207E-17	5.897E-16	1.112E-15	3.16E-13	94.2	268.1	25.43	1866
780	3.746E-17	2.344E-16	1.455E-15	3.90E-13	97.2	260.3	37.26	1832
800	3.357E-17	3.615E-17	1.425E-15	3.66E-13	97.3	249.8	48.85	1785
820	3.085E-17	7.298E-19	1.435E-15	3.58E-13	97.4	243.1	60.52	1754
840	3.429E-17	2.877E-19	1.366E-15	3.37E-13	97.0	238.9	71.63	1735
860	3.432E-17	7.307E-19	1.179E-15	2.89E-13	96.5	236.3	81.22	1723
900	3.850E-17	4.881E-18	1.151E-15	2.84E-13	96.0	236.8	90.57	1725
940	3.847E-17	9.070E-18	6.282E-16	1.65E-13	93.1	244.5	95.68	1761
1000	4.616E-17	7.321E-19	3.448E-16	1.01E-13	86.5	252.9	98.49	1799
1060	4.841E-17	3.904E-18	1.207E-16	4.29E-14	66.7	237.0	99.47	1726
1150	6.737E-17	7.330E-19	2.967E-17	2.68E-14	25.8	233.3	99.71	1709
1350	3.514E-16	2.519E-19	3.589E-17	1.09E-13	4.60	138.1	100.00	1191
Total	3.540E-15	4.836E-15	1.230E-14	3.86E-12		228.4		1685

Lambda K40 = 5.54E-10 J = 0.0067655