

ID	Adsorbent	Production area	Particle size	Aqueous solution				Ion concentration of the solution			Cs concentration of adsorbed [%]	Cs adsorption ratio [%]	Kd(Cs)	Note	
				Composition, etc.	pH	Filtration ○: Yes ×: No	Amount of adsorbent [mg]	Solution volume V[mL]	Mixing time(1) [h]	Cs [ppm]					Sr(2) [ppm]
001	Vermiculite			Ion-exchanged water		○	0.3	30	24	10		3.1	31.0	31.0	
002	Sericite			Ion-exchanged water		○	0.3	30	24	10		3	30.0	30.0	
003	Muscovite 1			Ion-exchanged water		○	0.3	30	24	10		1.9	19.0	19.0	No processing
004	Muscovite 2			Ion-exchanged water		○	0.3	30	24	10		3.4	34.0	34.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
005	Muscovite 3			Ion-exchanged water		○	0.3	30	24	10		2	20.0	20.0	BaCl2(35g/100ml)is mixed and it agitates for 120 minutes.
006	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	10		4	40.0	40.0	No processing
007	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	1		3	300.0	300.0	No processing
008	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	0.1		0.085	85.0	85.0	No processing
009	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	0.01		0.01	100.0	100.0	No processing
010	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	50		32.7	65.4	65.4	No processing
011	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	75		38.8	51.7	51.7	No processing
012	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	100		56.1	56.1	56.1	No processing
013	Phlogopite 3			Ion-exchanged water		○	0.3	30	24	400		99.8	25.0	25.0	No processing
014	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	600		132.4	22.1	22.1	No processing
015	Phlogopite 1			Ion-exchanged water		○	0.3	30	24	1000		146.1	14.6	14.6	No processing
016	Phlogopite 2			Ion-exchanged water		○	0.3	30	24	10		5.2	52.0	52.0	HCl(1M)is mixed and it agitates for 24 hours.
017	Phlogopite 3			Ion-exchanged water		○	0.3	30	24	10		9.4	94.0	94.0	BaCl2(35g/100ml)is mixed and it agitates for 120 minutes.
018	Phlogopite 3			Ion-exchanged water		○	0.3	30	24	1		1	100.0	100.0	BaCl2(35g/100ml)is mixed and it agitates for 120 minutes.
019	Phlogopite 3			Ion-exchanged water		○	0.3	30	24	0.1		0.1	100.0	100.0	BaCl2(35g/100ml)is mixed and it agitates for 120 minutes.
020	Phlogopite 3			Ion-exchanged water		○	0.3	30	3	10		9.4	94.0	94.0	BaCl2(35g/100ml)is mixed and it agitates for 120 minutes.
021	Phlogopite 4			Ion-exchanged water		○	0.3	30	10 minutes	10		9	90.0	90.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
022	Phlogopite 4			Ion-exchanged water		○	0.3	30	20 minutes	10		9.1	91.0	91.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
023	Phlogopite 4			Ion-exchanged water		○	0.3	30	30 minutes	10		9.2	92.0	92.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
024	Phlogopite 4			Ion-exchanged water		○	0.3	30	40 minutes	10		10	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
025	Phlogopite 4			Ion-exchanged water		○	0.3	30	50 minutes	10		10	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
026	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	10		10	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
027	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	1		1	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
028	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	0.1		0.1	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
029	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	0.01		0.01	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
030	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	300		300	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
031	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	350		350	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
032	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		498	99.6	99.6	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
033	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	650		593	91.2	91.2	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
034	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	700		588	84.0	84.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
035	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	750		561	74.8	74.8	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
036	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	800		602	75.3	75.3	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
037	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	850		530	62.4	62.4	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
038	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	900		588	65.3	65.3	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
039	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	950		610	64.2	64.2	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
040	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	1000		600	60.0	60.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
041	Phlogopite 4			Ion-exchanged water KCl(3.0g/1000ml)		○	0.3	30	24	10		10	100.0	100.0	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
042	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		157	31.4	31.4	NaTPB(4.0g/100ml)is mixed and it agitates for 30 minutes.
043	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		305.3	61.1	61.1	NaTPB(4.0g/100ml)is mixed and it agitates for 60 minutes.
044	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		490.5	98.1	98.1	NaTPB(4.0g/100ml)is mixed and it agitates for 120 minutes.
045	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		422.2	84.4	84.4	NaTPB(4.0g/100ml)is mixed and it agitates for 240 minutes.
046	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		196	39.2	39.2	NaTPB(4.0g/100ml)is mixed and it agitates for 360 minutes.
047	Phlogopite 4			Ion-exchanged water		○	0.3	30	24	500		498	99.6	99.6	NaTPB(4.0g/100ml)is mixed and it agitates for 15 hours.
048	Phlogopite 5			Ion-exchanged water		○	0.3	30	24	10		7.51	75.1	75.1	NaCl(35g/100ml)is mixed and it agitates for 90 minutes.