

Table S1. Mercury injection data for Sample 338-C0002F-21SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.08	0	1	99.8
1.41	0	1	76.4
1.75	0	1	61.6
2.14	0	1	50.3
2.58	0	1	41.8
3.07	0	1	35.1
3.61	0	1	29.8
4.19	0	1	25.7
4.83	0	1	22.3
5.53	0	1	19.5
6.26	0	1	17.2
7.04	0	1	15.3
7.9	0	1	13.6
8.8	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.05
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.9	0	1	4.01
31.1	0	1	3.47
36.9	0	1	2.92
42.4	0	1	2.54
48.3	0	1	2.23
54.5	0	1	1.98
61.8	0	1	1.74
70.5	0	1	1.53
79.3	0	1	1.36
90.2	0	1	1.19
102	0	1	1.06
115	0	1	0.941
131	0	1	0.825
147	0	1	0.734
168	0	1	0.642
190	0	1	0.568
212	0	1	0.508
241	0	1	0.447
275	0	1	0.392
313	0	1	0.345

352	0	1	0.306
399	0	1	0.27
448	0.00536774	0.994632264	0.24
511	0.01226911	0.98773089	0.211
578	0.02025681	0.979743188	0.186
654	0.03003376	0.969966241	0.165
733	0.04275018	0.957249819	0.147
829	0.06204847	0.937951531	0.13
943	0.0911237	0.908876296	0.114
1080	0.12479986	0.875200145	0.0999
1220	0.15183024	0.848169761	0.0884
1370	0.17777429	0.822225705	0.0787
1540	0.20486858	0.79513142	0.07
1750	0.23566916	0.764330842	0.0616
1980	0.26653364	0.733466361	0.0545
2220	0.29554497	0.704455028	0.0485
2510	0.32858211	0.671417892	0.0429
2830	0.36296118	0.637038823	0.0381
3220	0.40283578	0.597164215	0.0335
3660	0.44456354	0.55543646	0.0295
4150	0.4944068	0.5055932	0.026
4700	0.53817941	0.461820593	0.0229
5300	0.581313	0.418687003	0.0203
5970	0.62355197	0.376448035	0.0181
6750	0.66368218	0.33631782	0.016
7650	0.70106463	0.298935375	0.0141
8650	0.73710514	0.262894864	0.0125
9790	0.76886424	0.231135761	0.011
11000	0.79755606	0.202443935	0.00976
12500	0.82413914	0.175860863	0.00862
14100	0.84759103	0.15240897	0.00763
16000	0.86842296	0.131577044	0.00674
18100	0.88669882	0.113301182	0.00596
20400	0.90337714	0.09662286	0.00527
23100	0.91896913	0.081030866	0.00466
26200	0.93315529	0.066844707	0.00412
29600	0.94568001	0.05431999	0.00364
33500	0.95660719	0.043392814	0.00322
37800	0.96580902	0.034190981	0.00285
43000	0.97347721	0.026522788	0.00251
48400	0.97993128	0.020068724	0.00223
55000	0.98517121	0.014828792	0.00196

Table S2. Mercury injection data for Sample 338-C0002F-110SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.08	0	1	51.8
2.5	0	1	43.1
3	0	1	35.9
3.55	0	1	30.4
4.15	0	1	26
4.81	0	1	22.4
5.52	0	1	19.5
6.26	0	1	17.2
7.05	0	1	15.3
7.89	0	1	13.7
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.8	0	1	4.02
31	0	1	3.47
36.9	0	1	2.92
42.6	0	1	2.53
48.2	0	1	2.24
54.6	0	1	1.98
62.1	0	1	1.74
70.2	0	1	1.53
79.2	0	1	1.36
90.3	0	1	1.19
102	0	1	1.06
115	0	1	0.939
131	0	1	0.824
147	0	1	0.735
167	0	1	0.644
190	0	1	0.567
214	0	1	0.502
241	0	1	0.447
275	0	1	0.393
311	0	1	0.346

352	0	1	0.306
399	0	1	0.27
450	0	1	0.24
508	0	1	0.212
578	0	1	0.186
654	0	1	0.165
735	0.01393805	0.986061947	0.147
829	0.02964602	0.970353982	0.13
943	0.04955752	0.950442478	0.114
1080	0.07323009	0.926769912	0.0999
1220	0.1	0.9	0.0884
1370	0.1300885	0.869911504	0.0787
1540	0.16393805	0.836061947	0.0701
1750	0.20862832	0.791371681	0.0617
1980	0.25862832	0.741371681	0.0544
2220	0.31017699	0.689823009	0.0486
2510	0.3699115	0.630088496	0.043
2830	0.42765487	0.572345133	0.0381
3220	0.4869469	0.513053097	0.0335
3660	0.53982301	0.460176991	0.0294
4150	0.58606195	0.413938053	0.026
4700	0.62765487	0.372345133	0.0229
5300	0.66393805	0.336061947	0.0203
5970	0.69778761	0.302212389	0.0181
6750	0.72876106	0.271238938	0.016
7650	0.75752212	0.242477876	0.0141
8650	0.78495575	0.215044248	0.0125
9790	0.81061947	0.189380531	0.011
11000	0.83384956	0.166150442	0.00976
12500	0.85464602	0.145353982	0.00862
14100	0.87345133	0.126548673	0.00763
16000	0.89048673	0.109513274	0.00674
18100	0.90575221	0.094247788	0.00596
20400	0.91946903	0.080530973	0.00527
23100	0.93230088	0.067699115	0.00466
26200	0.94380531	0.05619469	0.00412
29600	0.95376106	0.046238938	0.00364
33500	0.96261062	0.037389381	0.00322
37800	0.97057522	0.029424779	0.00285
43000	0.97743363	0.022566372	0.00251
48400	0.98362832	0.016371681	0.00223
55000	0.98893805	0.011061947	0.00196

Table S3. Mercury injection data for Sample 338-C0002F-167SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
5.98	0	1	18
6.72	0	1	16
7.45	0	1	14.5
8.31	0	1	13
9.25	0	1	11.6
10.3	0	1	10.5
11.5	0	1	9.38
12.8	0	1	8.42
14.3	0	1	7.56
15.9	0	1	6.78
17.7	0	1	6.09
19.9	0	1	5.43
22.1	0	1	4.88
24.7	0	1	4.37
26.6	0	1	4.05
29.4	0	1	3.66
31.7	0	1	3.4
36.2	0	1	2.98
41.1	0	1	2.62
45.3	0	1	2.38
51	0	1	2.11
56.9	0	1	1.89
65.5	0	1	1.64
71.3	0	1	1.51
79.9	0	1	1.35
89.2	0.00957392	0.990426082	1.21
98.1	0.01776781	0.982232189	1.1
111	0.02923926	0.970760738	0.971
124	0.04010695	0.959893048	0.869
139	0.04968087	0.950319131	0.777
154	0.05959979	0.940400207	0.698
172	0.06796619	0.932033811	0.627
191	0.07762636	0.922373642	0.565
215	0.08789029	0.912109712	0.501
238	0.09556667	0.904433328	0.452
266	0.10505434	0.894945662	0.406
298	0.1143695	0.885630499	0.361
334	0.12394342	0.876056581	0.323
370	0.13377609	0.866223909	0.291
412	0.14188373	0.858116267	0.261
460	0.15128515	0.848714853	0.234
512	0.16042781	0.839572193	0.21
572	0.16948422	0.830515784	0.188

638	0.17931689	0.820683112	0.169
713	0.18940831	0.810591685	0.151
793	0.1997585	0.800241504	0.136
884	0.21062619	0.789373814	0.122
985	0.22183888	0.778161118	0.109
1100	0.23348284	0.766517164	0.0979
1230	0.2459893	0.754010695	0.0879
1370	0.25927204	0.740727963	0.0788
1520	0.27358979	0.726410212	0.0708
1700	0.28911506	0.71088494	0.0634
1900	0.30619286	0.693807142	0.0568
2110	0.32637571	0.673624288	0.051
2350	0.3514749	0.648525099	0.0458
2620	0.38045541	0.619544592	0.0411
2930	0.41374849	0.586251509	0.0368
3260	0.4512679	0.548732103	0.033
3640	0.49042608	0.509573918	0.0296
4050	0.5341556	0.465844402	0.0266
4520	0.57667759	0.423322408	0.0238
5040	0.62204589	0.377954114	0.0214
5610	0.66465413	0.335345869	0.0192
6260	0.70346731	0.296532689	0.0172
6980	0.73839917	0.261600828	0.0154
7780	0.76953597	0.230464033	0.0139
8670	0.79730895	0.202691047	0.0124
9670	0.82076936	0.179230637	0.0111
10800	0.84086597	0.159134035	0.01
12000	0.85889253	0.141107469	0.00897
13400	0.87493531	0.125064689	0.00804
14900	0.88916681	0.11083319	0.00722
16600	0.90210454	0.097895463	0.00647
18600	0.91383474	0.086165258	0.00581
20700	0.92470243	0.075297568	0.00521
23100	0.93488011	0.06511989	0.00467
25700	0.94454028	0.055459721	0.00419
28700	0.95325168	0.046748318	0.00376
31900	0.96118682	0.038813179	0.00337
35600	0.96843195	0.031568052	0.00303
39700	0.97498706	0.025012938	0.00272
44200	0.98067966	0.019320338	0.00244
49300	0.985596	0.014404002	0.00219
55000	0.98947732	0.010522684	0.00196

Table S4. Mercury injection data for Sample 338-C0002F-211SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
5.98	0	1	18
6.72	0	1	16
7.45	0	1	14.5
8.31	0	1	13
9.25	0	1	11.6
10.3	0	1	10.5
11.5	0	1	9.38
12.8	0	1	8.42
14.3	0	1	7.56
15.9	0	1	6.78
17.7	0	1	6.09
19.9	0	1	5.43
22.1	0	1	4.88
24.7	0	1	4.37
26.6	0	1	4.06
29.4	0	1	3.66
31.6	0	1	3.41
36.1	0	1	2.98
41	0	1	2.63
45.3	0	1	2.38
51	0	1	2.11
56.8	0	1	1.9
65.5	0	1	1.65
71.3	0	1	1.51
79.8	0	1	1.35
89.2	0	1	1.21
98	0	1	1.1
111	0	1	0.971
124	0	1	0.869
139	0	1	0.778
154	0	1	0.698
172	0	1	0.627
191	0	1	0.565
215	0	1	0.501
238	0	1	0.452
266	0	1	0.406
298	0	1	0.361
334	0	1	0.323
370	0	1	0.291
412	0	1	0.261
460	0	1	0.234
512	0.00948468	0.990515315	0.21
572	0.01930811	0.980691892	0.188

637	0.02947027	0.97052973	0.169
713	0.04047928	0.959520721	0.151
793	0.05165766	0.948342342	0.136
884	0.06385225	0.936147748	0.122
985	0.07689369	0.923106306	0.109
1100	0.09145946	0.908540541	0.098
1230	0.10704144	0.892958559	0.0879
1370	0.12431712	0.875682883	0.0788
1520	0.14294775	0.857052252	0.0708
1700	0.16428829	0.835711712	0.0634
1900	0.188	0.812	0.0568
2110	0.21459099	0.785409009	0.051
2350	0.24507748	0.754922523	0.0458
2620	0.27929009	0.72070991	0.0411
2930	0.31722883	0.682771171	0.0368
3260	0.35923243	0.640767568	0.033
3640	0.40411532	0.595884685	0.0296
4050	0.45086126	0.549138739	0.0266
4520	0.49642162	0.503578378	0.0238
5040	0.54249009	0.45750991	0.0214
5610	0.58652613	0.413473874	0.0192
6260	0.62785225	0.372147748	0.0172
6980	0.66562162	0.334378378	0.0154
7780	0.69966486	0.300335135	0.0139
8670	0.73049009	0.26950991	0.0124
9670	0.75860541	0.241394595	0.0111
10800	0.78401081	0.215989189	0.01
12000	0.80687568	0.193124324	0.00897
13400	0.82770811	0.172291892	0.00804
14900	0.84667748	0.153322523	0.00722
16600	0.86361441	0.136385586	0.00647
18600	0.87885766	0.121142342	0.00581
20700	0.89274595	0.107254054	0.00521
23100	0.90544865	0.094551351	0.00467
25700	0.91713514	0.082864865	0.00419
28700	0.92780541	0.072194595	0.00376
31900	0.93729009	0.06270991	0.00337
35600	0.9460973	0.053902703	0.00303
39700	0.95405766	0.045942342	0.00272
44200	0.96150991	0.03849009	0.00244
49300	0.96845405	0.031545946	0.00219
55000	0.97489009	0.02510991	0.00196



Table S5. Mercury injection data for Sample 338-C0002F-267SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.09	0	1	98.8
1.4	0	1	77
1.75	0	1	61.6
2.13	0	1	50.6
2.56	0	1	42.1
3.06	0	1	35.2
3.59	0	1	30
4.18	0	1	25.8
4.81	0	1	22.4
5.49	0	1	19.6
6.22	0	1	17.3
7.05	0	1	15.3
7.9	0	1	13.6
8.79	0	1	12.3
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.08
13.4	0	1	8.06
15.3	0	1	7.06
17.7	0	1	6.1
20.4	0	1	5.27
23.6	0	1	4.56
26.4	0	1	4.09
31.5	0	1	3.43
36.5	0	1	2.95
41.2	0	1	2.62
47.5	0	1	2.27
54.9	0	1	1.96
61.6	0	1	1.75
69.5	0	1	1.55
78.6	0	1	1.37
89.6	0	1	1.2
102	0	1	1.06
115	0	1	0.939
130	0	1	0.829
147	0	1	0.735
167	0	1	0.644
190	0	1	0.568
212	0	1	0.508
240	0	1	0.448
275	0	1	0.392
311	0	1	0.346

352	0	1	0.306
399	0	1	0.27
448	0	1	0.24
508	0	1	0.212
578	0.00861476	0.991385238	0.186
653	0.01784486	0.982155135	0.165
733	0.02789542	0.972104579	0.147
828	0.03897154	0.961028456	0.13
942	0.05230391	0.947696086	0.114
1080	0.06789253	0.932107468	0.1
1220	0.08532717	0.91467283	0.0886
1370	0.10440272	0.895597284	0.0787
1540	0.12573451	0.874265492	0.07
1750	0.14911743	0.850882565	0.0616
1980	0.17496172	0.825038278	0.0545
2220	0.20306226	0.796937744	0.0486
2510	0.2344446	0.765555395	0.043
2830	0.2680832	0.731916799	0.0381
3220	0.30582406	0.694175935	0.0335
3660	0.34869276	0.651307237	0.0295
4150	0.39648418	0.603515817	0.026
4690	0.45124946	0.548750542	0.023
5300	0.510117	0.489882999	0.0203
5960	0.56652318	0.433476816	0.0181
6740	0.61903221	0.380967789	0.016
7640	0.66436227	0.335637729	0.0141
8640	0.70353893	0.296461072	0.0125
9780	0.73881843	0.261181569	0.011
11000	0.77040589	0.229594107	0.00976
12500	0.79768597	0.202314026	0.00862
14100	0.82127401	0.178725986	0.00763
16000	0.84199047	0.158009533	0.00675
18100	0.86024556	0.139754442	0.00596
20400	0.8762444	0.123755597	0.00527
23100	0.89121768	0.10878232	0.00466
26200	0.90475516	0.095244836	0.00412
29600	0.91726708	0.082732919	0.00364
33500	0.92895854	0.071041456	0.00322
37800	0.94003467	0.059965333	0.00285
43000	0.95049545	0.04950455	0.00251
48400	0.96034089	0.039659107	0.00223
54900	0.969571	0.030429005	0.00196

Table S6. Mercury injection data for Sample 338-C0002F-312SMW.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.42	0	1	75.9
1.76	0	1	61.2
2.13	0	1	50.6
2.57	0	1	41.9
3.07	0	1	35.1
3.6	0	1	29.9
4.19	0	1	25.7
4.84	0	1	22.3
5.52	0	1	19.5
6.26	0	1	17.2
7.05	0	1	15.3
7.9	0	1	13.6
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.98
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.05
17.6	0	1	6.13
20.4	0	1	5.28
23.6	0	1	4.56
26.6	0	1	4.05
31.1	0	1	3.47
36.7	0	1	2.93
42.3	0	1	2.55
48.9	0	1	2.2
55	0	1	1.96
62.5	0	1	1.73
70.1	0	1	1.54
78.7	0	1	1.37
90.5	0	1	1.19
102	0	1	1.06
115	0	1	0.937
131	0	1	0.824
146	0	1	0.736
167	0	1	0.643
189	0	1	0.569
213	0	1	0.507
241	0	1	0.447
275	0	1	0.391
311	0	1	0.346

352	0	1	0.306
400	0.0030781	0.996921899	0.27
449	0.00654096	0.993459036	0.24
509	0.01096573	0.989034266	0.212
579	0.01596765	0.984032352	0.186
653	0.02154671	0.978453294	0.165
734	0.02789529	0.972104711	0.147
828	0.03674483	0.963255171	0.13
943	0.04809533	0.951904674	0.114
1080	0.06310107	0.936898933	0.0998
1220	0.0792611	0.920738903	0.0884
1370	0.09657541	0.903424586	0.0787
1540	0.11581354	0.884186456	0.07
1750	0.14043835	0.859561649	0.0616
1980	0.16756411	0.832435885	0.0545
2220	0.19584417	0.804155834	0.0486
2510	0.22970328	0.770296724	0.043
2830	0.26817954	0.731820464	0.0381
3220	0.31492819	0.685071807	0.0335
3660	0.3693721	0.630627898	0.0295
4150	0.42362363	0.576376371	0.026
4700	0.48576279	0.51423721	0.0229
5300	0.54559338	0.454406625	0.0203
5970	0.59792109	0.402078911	0.0181
6750	0.6471707	0.352829297	0.016
7650	0.69314983	0.306850166	0.0141
8650	0.73547372	0.264526279	0.0125
9790	0.77202617	0.227973831	0.011
11000	0.80319194	0.19680806	0.00976
12500	0.82993294	0.170067059	0.00862
14100	0.85109488	0.148905116	0.00763
16000	0.86937111	0.130628892	0.00674
18100	0.8859159	0.1140841	0.00596
20400	0.9013064	0.098693596	0.00527
23100	0.91554262	0.084457379	0.00466
26200	0.92823979	0.071760213	0.00412
29600	0.93978266	0.060217335	0.00364
33500	0.95017126	0.049828745	0.00322
37800	0.95959794	0.040402061	0.00285
43000	0.96748557	0.032514428	0.00251
48400	0.9744113	0.025588701	0.00223
55000	0.97979798	0.020202024	0.00196

Table S7. Mercury injection data for Sample 338-C0002H-2R-1.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.08	0	1	99.8
1.41	0	1	76.4
1.75	0	1	61.6
2.14	0	1	50.3
2.58	0	1	41.8
3.07	0	1	35.1
3.61	0	1	29.8
4.19	0	1	25.7
4.83	0	1	22.3
5.53	0	1	19.5
6.26	0	1	17.2
7.04	0	1	15.3
7.9	0	1	13.6
8.8	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.05
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
27	0	1	4
31.2	0	1	3.46
37	0	1	2.91
42.5	0	1	2.54
48.4	0	1	2.22
54.7	0	1	1.97
61.9	0	1	1.74
70.6	0	1	1.53
79.4	0	1	1.36
90.4	0	1	1.19
102	0	1	1.06
115	0	1	0.94
131	0	1	0.824
147	0	1	0.734
168	0	1	0.641
190	0	1	0.567
212	0	1	0.507
241	0	1	0.447
275	0	1	0.392
313	0	1	0.345

353	0.00510804	0.994891964	0.306
399	0.01129662	0.988703382	0.27
448	0.01822194	0.981778064	0.24
511	0.02765216	0.972347844	0.211
578	0.03968551	0.960314491	0.186
655	0.05540254	0.944597457	0.165
733	0.07652231	0.923477694	0.147
829	0.11070685	0.889293146	0.13
943	0.16684613	0.833153868	0.114
1080	0.23993034	0.760069663	0.0999
1220	0.30810297	0.691897031	0.0884
1370	0.3703326	0.629667402	0.0788
1540	0.42990998	0.570090022	0.07
1750	0.4908626	0.509137402	0.0616
1980	0.54577398	0.454226017	0.0545
2220	0.59272862	0.40727138	0.0486
2510	0.6398306	0.360169395	0.043
2830	0.68246306	0.317536942	0.0381
3220	0.72367115	0.276328846	0.0335
3660	0.76090088	0.239099123	0.0295
4150	0.79302256	0.206977436	0.026
4700	0.81885744	0.181142562	0.0229
5300	0.84135244	0.158647558	0.0203
5970	0.86045846	0.13954154	0.0181
6750	0.87789454	0.122105456	0.016
7650	0.89287484	0.107125158	0.0141
8650	0.90613609	0.093863911	0.0125
9790	0.9180221	0.081977905	0.011
11000	0.92872932	0.071270676	0.00976
12500	0.93850335	0.061496646	0.00862
14100	0.94655833	0.053441666	0.00763
16000	0.95353277	0.046467233	0.00674
18100	0.96016339	0.039836609	0.00596
20400	0.96566435	0.034335648	0.00527
23100	0.97057593	0.029424075	0.00466
26200	0.9751928	0.024807196	0.00412
29600	0.97907295	0.020927054	0.00364
33500	0.9823637	0.0176363	0.00322
37800	0.98496683	0.015033166	0.00285
43000	0.98717704	0.012822958	0.00251
48400	0.98919079	0.010809213	0.00223
55000	0.99086072	0.009139279	0.00196

Table S8. Mercury injection data for Sample 338-C0002J-1R-7.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.08	0	1	99.8
1.4	0	1	77
1.74	0	1	61.9
2.13	0	1	50.6
2.57	0	1	41.9
3.05	0	1	35.3
3.59	0	1	30
4.17	0	1	25.8
4.82	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.07	0	1	15.2
7.89	0	1	13.7
8.81	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.29
23.6	0	1	4.56
26.7	0	1	4.03
31	0	1	3.48
36.5	0	1	2.96
42.6	0	1	2.53
48.4	0	1	2.22
55	0	1	1.96
62	0	1	1.74
70.8	0	1	1.52
79.6	0	1	1.35
90.2	0.00226197	0.997738033	1.19
102	0.00657549	0.993424513	1.06
115	0.01304577	0.986954235	0.938
131	0.02388217	0.976117833	0.823
147	0.03534982	0.964650184	0.734
168	0.04928985	0.950710153	0.641
190	0.06149395	0.938506049	0.568
213	0.07317201	0.926827985	0.507
241	0.08611257	0.913887428	0.448
275	0.10021042	0.899789584	0.392
312	0.11320358	0.886796423	0.345

352	0.12667017	0.873329826	0.306
399	0.1405576	0.859442399	0.27
449	0.15465544	0.845344555	0.24
509	0.17064703	0.829352972	0.212
578	0.18926881	0.810731194	0.186
654	0.21109942	0.788900579	0.165
734	0.23834824	0.761651762	0.147
830	0.27574961	0.724250395	0.13
945	0.32440821	0.675591794	0.114
1080	0.37995792	0.620042083	0.0999
1220	0.43366649	0.566333509	0.0884
1370	0.48611257	0.513887428	0.0787
1540	0.53850605	0.461493951	0.07
1750	0.59300368	0.406996318	0.0616
1980	0.64218832	0.357811678	0.0545
2220	0.68442925	0.315570752	0.0486
2510	0.72582851	0.274171489	0.043
2830	0.76233561	0.237664387	0.0381
3220	0.79631773	0.203682272	0.0335
3660	0.82524987	0.174750132	0.0295
4150	0.84939506	0.150604945	0.026
4700	0.86964755	0.130352446	0.0229
5300	0.88621778	0.11378222	0.0203
5970	0.90021042	0.099789584	0.0181
6750	0.91230931	0.087690689	0.016
7640	0.92235665	0.077643346	0.0141
8650	0.93145713	0.068542872	0.0125
9790	0.93982115	0.060178853	0.011
11000	0.94713309	0.052866912	0.00977
12500	0.95370857	0.046291426	0.00862
14100	0.95938979	0.040610205	0.00763
16000	0.96454498	0.035455024	0.00675
18100	0.96906891	0.030931089	0.00596
20400	0.97306681	0.026933193	0.00527
23100	0.97643346	0.023566544	0.00466
26200	0.97927407	0.020725934	0.00412
29600	0.98179905	0.018200947	0.00364
33500	0.98411362	0.015886376	0.00322
37800	0.98621778	0.01378222	0.00285
43000	0.98805892	0.011941084	0.0025
48400	0.98968964	0.010310363	0.00223
55000	0.99105734	0.008942662	0.00196



Table S9. Mercury injection data for Sample 338-C0002J-3R-1.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.08	0	1	99.8
1.4	0	1	77
1.74	0	1	61.9
2.13	0	1	50.6
2.57	0	1	41.9
3.05	0	1	35.3
3.59	0	1	30
4.17	0	1	25.8
4.82	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.07	0	1	15.2
7.89	0	1	13.7
8.81	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.29
23.6	0	1	4.56
26.6	0	1	4.05
30.9	0	1	3.49
36.3	0	1	2.96
42.5	0	1	2.54
48.3	0	1	2.23
54.9	0	1	1.96
61.9	0	1	1.74
70.7	0	1	1.53
79.5	0	1	1.36
90	0	1	1.2
102	0.00318638	0.996813621	1.06
115	0.00637276	0.993627241	0.939
131	0.01017739	0.989822609	0.823
147	0.01398202	0.986017977	0.734
168	0.01883293	0.981167071	0.642
190	0.02430209	0.975697912	0.568
213	0.03062729	0.969372711	0.507
241	0.03823655	0.961763447	0.448
275	0.04779569	0.952204309	0.392
312	0.05959005	0.940409949	0.345

352	0.0734294	0.9265706	0.306
399	0.08964664	0.910353355	0.27
449	0.10762353	0.892376468	0.24
509	0.12869168	0.871308318	0.212
578	0.15256575	0.847434251	0.186
654	0.17696295	0.823037048	0.165
734	0.20197841	0.798021591	0.147
830	0.23008513	0.769914871	0.13
945	0.26175869	0.738241309	0.114
1080	0.2960955	0.703904504	0.0999
1220	0.32957626	0.670423741	0.0884
1370	0.36343749	0.636562515	0.0787
1540	0.39972416	0.600275836	0.07
1750	0.44200314	0.557996861	0.0616
1980	0.48499548	0.515004518	0.0545
2220	0.52580016	0.474199838	0.0486
2510	0.57074238	0.429257621	0.043
2830	0.614781	0.385219004	0.0381
3220	0.66034147	0.339658534	0.0335
3660	0.70271556	0.297284444	0.0295
4150	0.74090455	0.259095449	0.026
4700	0.77471822	0.225281781	0.0229
5290	0.80292006	0.197079945	0.0203
5970	0.82736482	0.172635183	0.0181
6750	0.8486232	0.151376801	0.016
7640	0.86588672	0.134113283	0.0141
8650	0.88120036	0.118799639	0.0125
9790	0.89389832	0.106101679	0.011
11000	0.90459885	0.095401151	0.00977
12500	0.91420555	0.085794455	0.00862
14100	0.92343178	0.076568222	0.00763
16000	0.93208732	0.067912684	0.00675
18100	0.93993437	0.06006563	0.00596
20400	0.94706806	0.052931945	0.00527
23100	0.95363105	0.046368954	0.00466
26200	0.95962334	0.040376659	0.00412
29600	0.96504494	0.034955058	0.00364
33500	0.96999096	0.030009036	0.00322
37800	0.97460408	0.02539592	0.00285
43000	0.97878918	0.021210824	0.0025
48400	0.98259381	0.017406192	0.00223
55000	0.98606553	0.013934465	0.00196

Table S10. Mercury injection data for Sample 338-C0002J-5R-7.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.8	0	1	135
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.12	0	1	50.8
2.56	0	1	42.1
3.04	0	1	35.4
3.58	0	1	30.1
4.17	0	1	25.8
4.81	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.04	0	1	15.3
7.89	0	1	13.7
8.8	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.9	0	1	4.01
30.2	0	1	3.57
36	0	1	2.99
42.4	0	1	2.54
47.5	0	1	2.27
54.7	0	1	1.97
61.7	0	1	1.75
69.3	0	1	1.56
79.1	0	1	1.36
89.5	0	1	1.2
101	0	1	1.07
114	0	1	0.941
130	0	1	0.828
147	0	1	0.734
167	0	1	0.644
190	0	1	0.567
212	0	1	0.508
240	0	1	0.448
275	0	1	0.392
312	0	1	0.345

351	0	1	0.307
399	0	1	0.27
448	0	1	0.241
509	0	1	0.212
578	0	1	0.186
652	0	1	0.165
733	0.00306715	0.996932846	0.147
828	0.0069011	0.993098905	0.13
944	0.01232338	0.987676615	0.114
1080	0.02163439	0.978365614	0.1
1220	0.03844896	0.96155104	0.0886
1370	0.07109224	0.928907763	0.0787
1540	0.13084696	0.86915304	0.0701
1750	0.2233545	0.776645499	0.0617
1980	0.31591681	0.684083188	0.0545
2220	0.39319813	0.606801873	0.0486
2510	0.47026036	0.529739641	0.043
2830	0.53943562	0.460564375	0.0381
3220	0.60642007	0.393579933	0.0335
3660	0.6648603	0.335139705	0.0295
4150	0.71475631	0.285243689	0.026
4700	0.7550127	0.2449873	0.0229
5290	0.78940864	0.210591364	0.0204
5970	0.81892999	0.181070011	0.0181
6740	0.84406969	0.155930306	0.016
7640	0.86543023	0.134569773	0.0141
8640	0.88366884	0.116331164	0.0125
9780	0.89889506	0.101104937	0.011
11000	0.91182092	0.088179076	0.00977
12500	0.92288458	0.077115415	0.00862
14100	0.93307192	0.066928084	0.00763
16000	0.94199952	0.058000476	0.00675
18100	0.94972218	0.050277822	0.00596
20400	0.95651373	0.043486268	0.00527
23100	0.96275758	0.037242419	0.00466
26200	0.96834418	0.031655818	0.00412
29600	0.97294491	0.027055088	0.00364
33500	0.97721702	0.022782981	0.00322
37800	0.98105096	0.01894904	0.00285
43000	0.98417288	0.015827115	0.00251
48400	0.98691141	0.013088585	0.00223
54900	0.98932132	0.010678679	0.00196

Table S11. Mercury injection data for Sample 338-C0002K-5T-2.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.8	0	1	135
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.12	0	1	50.8
2.56	0	1	42.1
3.04	0	1	35.4
3.58	0	1	30.1
4.17	0	1	25.8
4.81	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.04	0	1	15.3
7.89	0	1	13.7
8.8	0	1	12.2
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.9	0	1	4.01
30.2	0	1	3.57
36	0	1	2.99
42.4	0	1	2.54
47.5	0	1	2.27
54.7	0	1	1.97
61.7	0	1	1.75
69.3	0	1	1.56
79.1	0	1	1.36
89.5	0	1	1.2
101	0	1	1.07
114	0	1	0.941
130	0	1	0.828
147	0	1	0.734
167	0	1	0.644
190	0	1	0.567
212	0	1	0.508
240	0	1	0.448
275	0	1	0.392
312	0	1	0.345

351	0	1	0.307
399	0	1	0.27
448	0	1	0.241
509	0	1	0.212
578	0	1	0.186
652	0	1	0.165
733	0.00306715	0.996932846	0.147
828	0.0069011	0.993098905	0.13
944	0.01232338	0.987676615	0.114
1080	0.02163439	0.978365614	0.1
1220	0.03844896	0.96155104	0.0886
1370	0.07109224	0.928907763	0.0787
1540	0.13084696	0.86915304	0.0701
1750	0.2233545	0.776645499	0.0617
1980	0.31591681	0.684083188	0.0545
2220	0.39319813	0.606801873	0.0486
2510	0.47026036	0.529739641	0.043
2830	0.53943562	0.460564375	0.0381
3220	0.60642007	0.393579933	0.0335
3660	0.6648603	0.335139705	0.0295
4150	0.71475631	0.285243689	0.026
4700	0.7550127	0.2449873	0.0229
5290	0.78940864	0.210591364	0.0204
5970	0.81892999	0.181070011	0.0181
6740	0.84406969	0.155930306	0.016
7640	0.86543023	0.134569773	0.0141
8640	0.88366884	0.116331164	0.0125
9780	0.89889506	0.101104937	0.011
11000	0.91182092	0.088179076	0.00977
12500	0.92288458	0.077115415	0.00862
14100	0.93307192	0.066928084	0.00763
16000	0.94199952	0.058000476	0.00675
18100	0.94972218	0.050277822	0.00596
20400	0.95651373	0.043486268	0.00527
23100	0.96275758	0.037242419	0.00466
26200	0.96834418	0.031655818	0.00412
29600	0.97294491	0.027055088	0.00364
33500	0.97721702	0.022782981	0.00322
37800	0.98105096	0.01894904	0.00285
43000	0.98417288	0.015827115	0.00251
48400	0.98691141	0.013088585	0.00223
54900	0.98932132	0.010678679	0.00196

Table S12. Mercury injection data for Sample 338-C0002K-8X-5.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.42	0	1	75.9
1.76	0	1	61.2
2.13	0	1	50.6
2.57	0	1	41.9
3.07	0	1	35.1
3.6	0	1	29.9
4.19	0	1	25.7
4.84	0	1	22.3
5.52	0	1	19.5
6.26	0	1	17.2
7.05	0	1	15.3
7.9	0	1	13.6
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.98
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.05
17.6	0	1	6.13
20.4	0	1	5.28
23.6	0	1	4.56
26.5	0	1	4.07
30.9	0	1	3.48
36.6	0	1	2.95
42.2	0	1	2.56
48.8	0	1	2.21
54.9	0	1	1.96
62.3	0	1	1.73
69.9	0	1	1.54
78.6	0	1	1.37
90.3	0	1	1.19
102	0	1	1.06
115	0	1	0.939
131	0	1	0.825
146	0	1	0.737
167	0	1	0.644
189	0.00364396	0.996356036	0.569
212	0.00792166	0.992078338	0.507
241	0.01420618	0.98579382	0.447
275	0.02355374	0.976446259	0.392
311	0.03754868	0.962451323	0.347

351	0.06131366	0.938686337	0.307
399	0.10683681	0.893163187	0.27
448	0.17786771	0.822132286	0.24
508	0.26157327	0.738426726	0.212
578	0.34781377	0.652186234	0.186
652	0.42428421	0.575715792	0.165
732	0.49151271	0.508487288	0.147
827	0.55678721	0.443212795	0.13
941	0.61936833	0.380631666	0.114
1080	0.67334126	0.326658743	0.1
1220	0.71622385	0.283776147	0.0885
1370	0.75166009	0.248339913	0.0788
1540	0.78054775	0.219452253	0.0701
1750	0.80758702	0.192412981	0.0617
1980	0.83024297	0.169757028	0.0545
2220	0.84835717	0.151642828	0.0486
2510	0.86488704	0.13511296	0.043
2830	0.87914603	0.120853969	0.0381
3220	0.89250723	0.107492766	0.0335
3660	0.90354475	0.09645525	0.0295
4150	0.91310356	0.086896445	0.026
4690	0.92118365	0.07881635	0.0229
5290	0.92804909	0.071950909	0.0204
5960	0.93422799	0.065772013	0.0181
6740	0.93998439	0.060015606	0.016
7640	0.94547675	0.054523253	0.0141
8640	0.95044099	0.049559012	0.0125
9780	0.95492993	0.04507007	0.011
11000	0.95915482	0.040845184	0.00977
12500	0.96316846	0.036831542	0.00862
14100	0.96686523	0.033134766	0.00763
16000	0.97040358	0.029596424	0.00675
18100	0.97373067	0.026269326	0.00596
20400	0.97679372	0.023206284	0.00527
23100	0.97953989	0.020460107	0.00466
26200	0.98202201	0.017977987	0.00412
29600	0.98429289	0.01570711	0.00364
33500	0.98629971	0.013700289	0.00322
37800	0.98809529	0.011904713	0.00285
43000	0.98962681	0.010373191	0.00251
48400	0.99078865	0.009211348	0.00223
55000	0.99173925	0.008260748	0.00196



Table S13. Mercury injection data for Sample 338-C0002L-1X-3.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.75	0	1	61.6
2.14	0	1	50.3
2.58	0	1	41.8
3.07	0	1	35.1
3.61	0	1	29.8
4.2	0	1	25.7
4.85	0	1	22.2
5.53	0	1	19.5
6.27	0	1	17.2
7.05	0	1	15.3
7.89	0	1	13.7
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.06
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.8	0	1	4.02
30.9	0	1	3.49
36.4	0	1	2.96
42.3	0	1	2.55
48	0	1	2.24
54.8	0	1	1.97
62	0	1	1.74
69.5	0.00244143	0.997558573	1.55
79.5	0.00535401	0.994645993	1.36
89.8	0.00869491	0.991305093	1.2
102	0.01259262	0.987407376	1.06
115	0.01743265	0.982567353	0.941
131	0.02300081	0.976999186	0.822
147	0.03058209	0.969417912	0.731
168	0.04201825	0.957981754	0.641
189	0.05760911	0.942390885	0.571
212	0.08219471	0.917805285	0.507
242	0.12464128	0.875358718	0.446
274	0.18289288	0.817107123	0.393
310	0.24315758	0.756842421	0.347

352	0.30406476	0.695935238	0.306
398	0.36822718	0.631772819	0.27
448	0.42630745	0.573692552	0.241
509	0.48344541	0.516554589	0.212
580	0.53822761	0.46177239	0.186
653	0.58572836	0.414271641	0.165
733	0.62723262	0.372767379	0.147
830	0.66710926	0.332890735	0.13
943	0.70557245	0.29442755	0.114
1080	0.74060907	0.259390928	0.0999
1220	0.76904956	0.230950443	0.0884
1370	0.79333533	0.206664668	0.0787
1540	0.81526534	0.184734655	0.07
1750	0.83668137	0.163318628	0.0616
1980	0.85518482	0.14481518	0.0544
2220	0.87060436	0.12939564	0.0486
2510	0.88525292	0.114747077	0.043
2830	0.89810254	0.10189746	0.0381
3220	0.91043817	0.089561828	0.0335
3660	0.92123185	0.07876815	0.0294
4150	0.93069773	0.069302266	0.026
4700	0.93793635	0.062063648	0.0229
5300	0.9442755	0.055724504	0.0203
5970	0.94992933	0.050070673	0.0181
6750	0.95554033	0.044459674	0.016
7650	0.96072301	0.039276995	0.0141
8650	0.96577719	0.034222812	0.0125
9790	0.97031739	0.029682614	0.011
11000	0.97442926	0.025570737	0.00976
12500	0.97811282	0.02188718	0.00862
14100	0.98132522	0.018674776	0.00763
16000	0.9842378	0.015762196	0.00674
18100	0.98689339	0.013106609	0.00596
20400	0.98933482	0.010665182	0.00527
23100	0.99139076	0.008609243	0.00466
26200	0.99314687	0.006853129	0.00412
29600	0.99464599	0.005354007	0.00364
33500	0.99580246	0.004197541	0.00322
37800	0.99670193	0.003298068	0.00285
43000	0.99738724	0.002612755	0.00251
48400	0.99794406	0.002055939	0.00223
55000	0.99837238	0.001627618	0.00196

Table S14. Mercury injection data for Sample 338-C0002L-4X-6.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.75	0	1	61.6
2.14	0	1	50.3
2.58	0	1	41.8
3.07	0	1	35.1
3.61	0	1	29.8
4.2	0	1	25.7
4.85	0	1	22.2
5.53	0	1	19.5
6.27	0	1	17.2
7.05	0	1	15.3
7.89	0	1	13.7
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.06
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.9	0	1	4.01
30.9	0	1	3.48
36.5	0	1	2.95
42.4	0	1	2.54
48.1	0	1	2.24
54.9	0	1	1.96
62.1	0	1	1.74
69.6	0	1	1.55
79.6	0	1	1.35
89.9	0	1	1.2
102	0	1	1.06
115	0	1	0.94
131	0	1	0.822
148	0	1	0.73
168	0.00147799	0.99852201	0.641
189	0.00331549	0.996684509	0.57
213	0.0055125	0.994487497	0.506
242	0.00850843	0.991491571	0.445
275	0.01334186	0.986658145	0.392
311	0.02101142	0.978988576	0.346

353	0.039706	0.960294	0.305
399	0.12806583	0.87193417	0.27
448	0.24962052	0.750379484	0.24
509	0.34413198	0.655868019	0.212
580	0.43069426	0.569305744	0.186
653	0.50595191	0.494048095	0.165
733	0.5711033	0.4288967	0.147
830	0.63122154	0.368778461	0.13
943	0.6855876	0.314412399	0.114
1080	0.73224415	0.267755852	0.0999
1220	0.7673564	0.232643605	0.0884
1370	0.79555804	0.204441959	0.0787
1540	0.81976512	0.180234881	0.07
1750	0.8425741	0.157425901	0.0616
1980	0.86106895	0.138931054	0.0544
2220	0.87576895	0.124231046	0.0486
2510	0.88923065	0.110769354	0.043
2830	0.900735	0.099265	0.0381
3220	0.91172006	0.088279939	0.0335
3660	0.92122713	0.078772869	0.0294
4150	0.92945594	0.07054406	0.026
4700	0.93552768	0.064472318	0.0229
5300	0.94108013	0.058919869	0.0203
5970	0.94611329	0.053886714	0.0181
6750	0.95158584	0.048414157	0.016
7650	0.95613965	0.04386035	0.0141
8650	0.96149237	0.03850763	0.0125
9790	0.96608612	0.033913877	0.011
11000	0.97028042	0.029719581	0.00976
12500	0.97427499	0.025725014	0.00862
14100	0.97798993	0.022010066	0.00763
16000	0.98142526	0.018574738	0.00674
18100	0.98454102	0.015458976	0.00596
20400	0.98741711	0.012582887	0.00527
23100	0.99009347	0.009906527	0.00466
26200	0.99249021	0.007509787	0.00412
29600	0.99464728	0.00535272	0.00364
33500	0.99620516	0.003794839	0.00322
37800	0.99740353	0.002596469	0.00285
43000	0.99828234	0.001717664	0.00251
48400	0.99900136	0.000998642	0.00223
55000	0.99940081	0.000599185	0.00196

Table S15. Mercury injection data for Sample 338-C0002L-8X-6.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.08	0	1	51.8
2.5	0	1	43.1
3	0	1	35.9
3.55	0	1	30.4
4.15	0	1	26
4.81	0	1	22.4
5.52	0	1	19.5
6.26	0	1	17.2
7.05	0	1	15.3
7.89	0	1	13.7
8.79	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.4	0	1	5.27
23.6	0	1	4.56
26.9	0	1	4
31.2	0	1	3.46
37.1	0	1	2.91
42.8	0	1	2.52
48.3	0	1	2.23
54.7	0	1	1.97
62.2	0	1	1.73
70.4	0	1	1.53
79.4	0	1	1.36
90.5	0	1	1.19
102	0	1	1.06
115	0	1	0.937
131	0	1	0.823
147	0	1	0.734
168	0.00193333	0.998066667	0.643
190	0.0042	0.9958	0.566
215	0.00693333	0.993066667	0.502
241	0.01073333	0.989266667	0.447
275	0.01653333	0.983466667	0.392
312	0.02546667	0.974533333	0.346

352	0.04026667	0.959733333	0.306
399	0.0706	0.9294	0.27
450	0.12706667	0.872933333	0.24
508	0.20546667	0.794533333	0.212
578	0.28186667	0.718133333	0.186
654	0.35186667	0.648133333	0.165
734	0.4178	0.5822	0.147
828	0.48353333	0.516466667	0.13
943	0.5484	0.4516	0.114
1080	0.6072	0.3928	0.1
1220	0.6538	0.3462	0.0885
1370	0.69253333	0.307466667	0.0788
1540	0.72646667	0.273533333	0.0701
1750	0.757	0.243	0.0617
1980	0.78506667	0.214933333	0.0545
2220	0.80826667	0.191733333	0.0486
2510	0.82826667	0.171733333	0.043
2830	0.8458	0.1542	0.0381
3220	0.8614	0.1386	0.0335
3660	0.87593333	0.124066667	0.0295
4150	0.88846667	0.111533333	0.026
4700	0.89873333	0.101266667	0.0229
5300	0.90773333	0.092266667	0.0203
5970	0.91606667	0.083933333	0.0181
6750	0.92406667	0.075933333	0.016
7650	0.93173333	0.068266667	0.0141
8650	0.93893333	0.061066667	0.0125
9790	0.94553333	0.054466667	0.011
11000	0.95153333	0.048466667	0.00976
12500	0.95733333	0.042666667	0.00862
14100	0.96273333	0.037266667	0.00763
16000	0.9674	0.0326	0.00674
18100	0.97166667	0.028333333	0.00596
20400	0.9754	0.0246	0.00527
23100	0.97873333	0.021266667	0.00466
26200	0.98153333	0.018466667	0.00412
29600	0.984	0.016	0.00364
33500	0.98613333	0.013866667	0.00322
37800	0.9878	0.0122	0.00285
43000	0.98893333	0.011066667	0.00251
48400	0.98986667	0.010133333	0.00223
55000	0.9906	0.0094	0.00196

Table S16. Mercury injection data for Sample 338-C0002L-11X-5.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.13	0	1	50.6
2.56	0	1	42.1
3.05	0	1	35.3
3.58	0	1	30.1
4.17	0	1	25.8
4.82	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.04	0	1	15.3
7.9	0	1	13.6
8.78	0	1	12.3
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.5	0	1	5.27
23.6	0	1	4.56
27	0	1	3.99
31.4	0	1	3.43
36.4	0	1	2.96
42.3	0	1	2.55
48.2	0	1	2.24
55.2	0	1	1.95
62.1	0	1	1.73
70.4	0	1	1.53
79.2	0	1	1.36
90.1	0	1	1.2
102	0	1	1.05
115	0	1	0.938
131	0	1	0.825
147	0.00191412	0.998085882	0.732
168	0.00452428	0.995475721	0.642
190	0.00742446	0.992575543	0.569
213	0.0113107	0.988689304	0.507
241	0.01693704	0.983062957	0.447
275	0.02639162	0.973608375	0.392
311	0.04234261	0.957657393	0.346

353	0.0698943	0.930105697	0.305
399	0.1202414	0.879758597	0.27
449	0.18723553	0.812764472	0.24
509	0.26211814	0.737881862	0.212
579	0.33247647	0.66752353	0.186
654	0.39575837	0.604241634	0.165
734	0.454806	0.545193998	0.147
829	0.5115915	0.488408502	0.13
943	0.56576683	0.434233166	0.114
1080	0.61657796	0.383422038	0.0999
1220	0.66118271	0.338817292	0.0884
1370	0.69824699	0.30175301	0.0787
1540	0.73107701	0.268922988	0.07
1750	0.7617609	0.238239099	0.0616
1980	0.78844254	0.211557456	0.0545
2220	0.81181798	0.188182017	0.0486
2510	0.83246725	0.167532746	0.0429
2830	0.84975232	0.150247682	0.0381
3220	0.86593531	0.134064685	0.0335
3660	0.8802622	0.119737803	0.0295
4150	0.89250095	0.10749905	0.026
4700	0.90369564	0.09630436	0.0229
5300	0.91303421	0.086965785	0.0203
5970	0.92115471	0.078845285	0.0181
6750	0.92805714	0.07194286	0.016
7650	0.9339735	0.066026496	0.0141
8650	0.93948384	0.060516157	0.0125
9790	0.94476217	0.055237832	0.011
11000	0.94969247	0.050307528	0.00977
12500	0.95433276	0.045667243	0.00862
14100	0.95868303	0.041316975	0.00763
16000	0.96274328	0.037256725	0.00674
18100	0.96662951	0.033370486	0.00596
20400	0.97039975	0.029600253	0.00527
23100	0.97387996	0.026120039	0.00466
26200	0.97707016	0.022929843	0.00412
29600	0.97991233	0.020087668	0.00364
33500	0.9825805	0.017419503	0.00322
37800	0.98490064	0.015099361	0.00285
43000	0.98698877	0.013011232	0.0025
48400	0.98878688	0.011213121	0.00223
55000	0.99041098	0.009589021	0.00196



Table S17. Mercury injection data for Sample 338-C0002L-14X-5.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.82	0	1	131
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.13	0	1	50.6
2.56	0	1	42.1
3.05	0	1	35.3
3.58	0	1	30.1
4.17	0	1	25.8
4.82	0	1	22.4
5.5	0	1	19.6
6.24	0	1	17.3
7.04	0	1	15.3
7.9	0	1	13.6
8.78	0	1	12.3
9.73	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.05
15.3	0	1	7.06
17.6	0	1	6.14
20.5	0	1	5.27
23.6	0	1	4.56
27	0	1	3.98
31.4	0	1	3.43
36.4	0	1	2.96
42.3	0	1	2.55
48.2	0	1	2.23
55.2	0	1	1.95
62.1	0	1	1.73
70.4	0	1	1.53
79.2	0	1	1.36
90.1	0	1	1.2
102	0	1	1.05
115	0	1	0.938
131	0	1	0.825
147	0	1	0.732
168	0.0021563	0.997843696	0.642
190	0.00463605	0.995363946	0.569
213	0.00690017	0.993099827	0.507
241	0.00997291	0.990027093	0.447
275	0.01396207	0.98603793	0.392
311	0.01870594	0.981294061	0.346

353	0.02485141	0.975148594	0.305
399	0.03460868	0.965391318	0.27
449	0.05169739	0.948302607	0.24
509	0.0942844	0.905715599	0.212
580	0.18932351	0.810676491	0.186
654	0.28905258	0.710947422	0.165
734	0.37325626	0.626743743	0.147
829	0.45492628	0.545073722	0.13
943	0.53142117	0.46857883	0.114
1080	0.60058463	0.399415373	0.0999
1220	0.65460005	0.345399953	0.0884
1370	0.69901991	0.300980086	0.0788
1540	0.73740213	0.262597871	0.07
1750	0.77303506	0.226964945	0.0616
1980	0.80214516	0.197854838	0.0545
2220	0.82548716	0.174512845	0.0486
2510	0.84640331	0.153596694	0.043
2830	0.86386937	0.13613063	0.0381
3220	0.87928694	0.120713055	0.0335
3660	0.89238649	0.107613507	0.0295
4150	0.90295238	0.097047617	0.026
4700	0.91222449	0.087775508	0.0229
5300	0.92041845	0.079581553	0.0203
5970	0.92753425	0.072465749	0.0181
6750	0.93411098	0.065889021	0.016
7650	0.94031035	0.059689646	0.0141
8650	0.9455933	0.054406701	0.0125
9790	0.95017545	0.049824555	0.011
11000	0.95416461	0.045835392	0.00977
12500	0.9576686	0.042331397	0.00862
14100	0.96101087	0.038989126	0.00763
16000	0.96408361	0.035916392	0.00674
18100	0.96704853	0.032951474	0.00596
20400	0.96990563	0.030094371	0.00527
23100	0.97270882	0.027291176	0.00466
26200	0.9754042	0.024595795	0.00412
29600	0.97793786	0.022062138	0.00364
33500	0.9803637	0.019636296	0.00322
37800	0.98252001	0.017479992	0.00285
43000	0.98446068	0.015539318	0.0025
48400	0.98629354	0.013706459	0.00223
55000	0.98764123	0.012358769	0.00196

Table S18. Mercury injection data for Sample 338-C0002L-17X-7.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.12	0	1	50.8
2.56	0	1	42.1
3.04	0	1	35.4
3.58	0	1	30.1
4.17	0	1	25.8
4.8	0	1	22.4
5.49	0	1	19.6
6.24	0	1	17.3
7.03	0	1	15.3
7.88	0	1	13.7
8.78	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.7	0	1	6.1
20.5	0	1	5.27
23.6	0	1	4.56
26.1	0	1	4.13
31.4	0	1	3.43
36.3	0	1	2.97
42.4	0	1	2.54
47.8	0	1	2.25
54.2	0	1	1.99
61.7	0	1	1.75
69.4	0	1	1.55
78.7	0	1	1.37
89.1	0	1	1.21
102	0	1	1.06
114	0	1	0.941
132	0	1	0.818
147	0	1	0.733
168	0	1	0.643
189	0	1	0.569
212	0	1	0.507
241	0	1	0.448
274	0	1	0.393
311	0	1	0.346

351	0	1	0.307
399	0	1	0.27
448	0.00196282	0.998037178	0.24
508	0.00529109	0.994708914	0.212
579	0.01194761	0.988052387	0.186
653	0.02508999	0.974910013	0.165
733	0.09728771	0.902712294	0.147
829	0.21411829	0.785881707	0.13
943	0.31234474	0.68765526	0.114
1080	0.40254922	0.597450782	0.1
1220	0.47901394	0.520986058	0.0885
1370	0.54651796	0.453482045	0.0787
1540	0.6072801	0.392719899	0.0702
1750	0.66531136	0.334688635	0.0616
1980	0.71344318	0.286556823	0.0545
2220	0.75065146	0.249348542	0.0486
2510	0.78427545	0.215724546	0.043
2830	0.8114136	0.188586396	0.0381
3220	0.83590621	0.16409379	0.0335
3660	0.85570511	0.144294888	0.0295
4150	0.87226109	0.12773891	0.026
4690	0.8859155	0.114084495	0.0229
5290	0.89769244	0.102307562	0.0203
5960	0.90776257	0.092237431	0.0181
6740	0.91706464	0.082935361	0.016
7640	0.92525729	0.074742712	0.0141
8640	0.9325112	0.067488804	0.0125
9780	0.93959442	0.060405577	0.011
11000	0.94582425	0.05417575	0.00976
12500	0.9514567	0.048543304	0.00862
14100	0.95666244	0.043337558	0.00763
16000	0.96178285	0.038217153	0.00675
18100	0.96613519	0.033864808	0.00596
20400	0.9708289	0.029171103	0.00527
23100	0.9746692	0.025330798	0.00466
26200	0.97833883	0.021661174	0.00412
29600	0.98149641	0.018503591	0.00364
33500	0.98414195	0.015858048	0.00322
37800	0.98712886	0.012871145	0.00285
43000	0.98960372	0.010396282	0.00251
48400	0.99182256	0.00817744	0.00223
54900	0.99378538	0.006214618	0.00196

Table S19. Mercury injection data for Sample 338-C0002L-20X-6.

Injection Pressure (psia)	Mercury Saturation (fraction)	Pseudo-Wetting Saturation (fraction)	Pore Throat Radius (microns)
0.81	0	1	133
1.09	0	1	98.8
1.41	0	1	76.4
1.74	0	1	61.9
2.12	0	1	50.8
2.56	0	1	42.1
3.04	0	1	35.4
3.58	0	1	30.1
4.17	0	1	25.8
4.8	0	1	22.4
5.49	0	1	19.6
6.24	0	1	17.3
7.03	0	1	15.3
7.88	0	1	13.7
8.78	0	1	12.3
9.74	0	1	11.1
10.8	0	1	9.99
11.9	0	1	9.07
13.4	0	1	8.06
15.3	0	1	7.06
17.7	0	1	6.1
20.5	0	1	5.27
23.6	0	1	4.56
26.1	0	1	4.14
31.3	0	1	3.44
36.3	0	1	2.97
42.4	0	1	2.54
47.8	0	1	2.25
54.2	0	1	1.99
61.6	0	1	1.75
69.4	0	1	1.55
78.7	0	1	1.37
89.1	0	1	1.21
102	0	1	1.06
114	0	1	0.942
132	0	1	0.819
147	0	1	0.733
168	0	1	0.643
189	0	1	0.569
212	0	1	0.508
241	0	1	0.448
274	0	1	0.393
311	0	1	0.346

351	0.00218551	0.997814492	0.307
399	0.00460729	0.995392713	0.27
448	0.00779695	0.992203053	0.24
508	0.0121089	0.987891105	0.212
579	0.0192561	0.980743903	0.186
653	0.03349143	0.966508568	0.165
733	0.08712498	0.912875022	0.147
829	0.18417334	0.815826657	0.13
943	0.27218434	0.727815662	0.114
1080	0.35369788	0.646302123	0.1
1220	0.42487455	0.575125446	0.0885
1370	0.48919937	0.510800632	0.0787
1540	0.55027545	0.449724545	0.0701
1750	0.61158781	0.388412188	0.0616
1980	0.66439441	0.335605591	0.0545
2220	0.70769109	0.292308907	0.0486
2510	0.74797532	0.25202468	0.043
2830	0.78176209	0.218237909	0.0381
3220	0.812182	0.187818001	0.0335
3660	0.83716767	0.162832329	0.0295
4150	0.85754606	0.142453945	0.026
4700	0.8737897	0.126210305	0.0229
5300	0.88778876	0.11221124	0.0203
5960	0.89983859	0.100161413	0.0181
6740	0.91064799	0.089352009	0.016
7640	0.9201579	0.079842096	0.0141
8640	0.92819112	0.071808878	0.0125
9780	0.93468858	0.065311422	0.011
11000	0.94071349	0.059286508	0.00976
12500	0.94626586	0.053734136	0.00862
14100	0.95158196	0.048418036	0.00763
16000	0.956839	0.043161004	0.00675
18100	0.96174162	0.038258378	0.00596
20400	0.96658518	0.03341482	0.00527
23100	0.9713106	0.028689397	0.00466
26200	0.97544535	0.024554652	0.00412
29600	0.97922569	0.020774314	0.00364
33500	0.98271068	0.017289315	0.00322
37800	0.98595941	0.014040587	0.00285
43000	0.98914907	0.010850927	0.00251
48400	0.99157085	0.008429148	0.00223
54900	0.99346102	0.006538979	0.00196