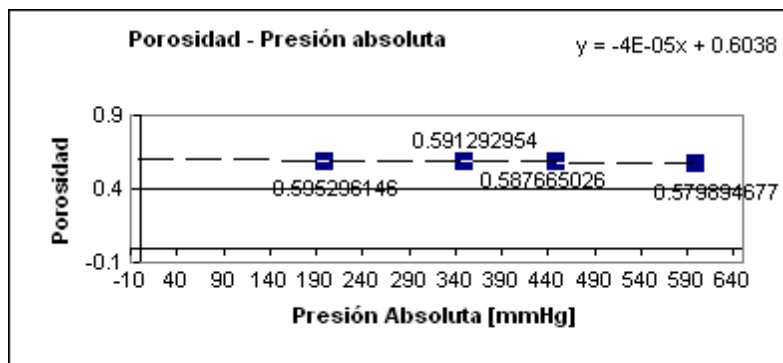


A) Determinación de la Porosidad de Diversas Partículas

La determinación de la porosidad sigue el método de imbibición descrito en la sección 6.4(c) y 8.2.

Tabla A.1 Porosidad Silica Gel Blanca (Química Meyer)

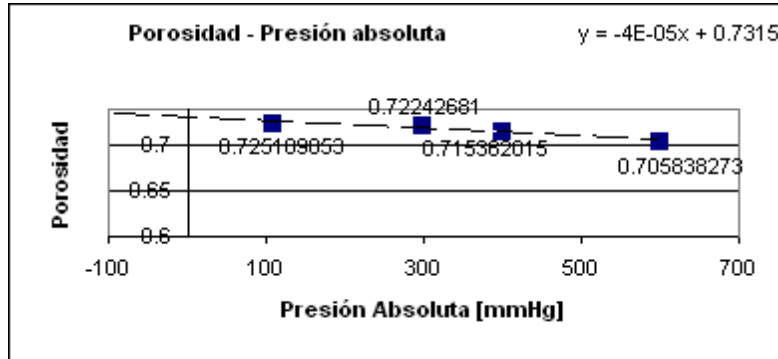
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{V_a}{V_s + V_a}$
1	34.2764	27.184	18.031	598	-400	198	1892.61	0.007113741	0.004836179	0.59529615
8	32.0098	24.6823	15.0677	598	-250	348	1892.61	0.007349549	0.005080075	0.59129295
3	19.8328	15.0308	8.6348	598	-150	448	1892.61	0.004816449	0.00337946	0.58766503
12	26.7633	24.4711	21.3188	598	0	598	1892.61	0.002299097	0.001665584	0.57989468



Por lo tanto la porosidad a Pabs=0 es 60.38%

Tabla A.2 Porosidad Piedra Pómez

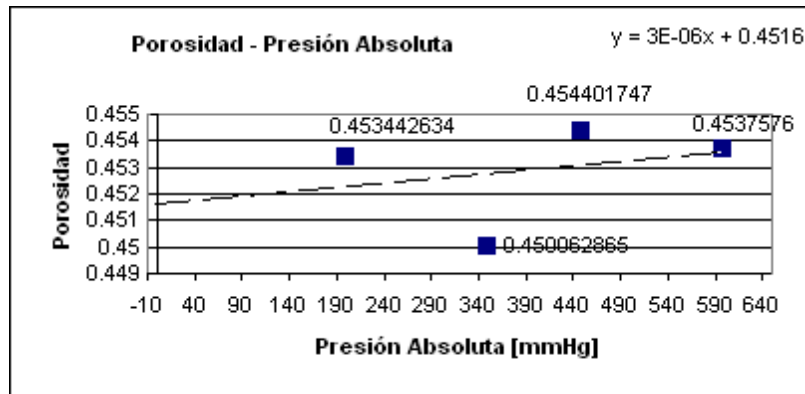
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm MmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{Va}{Vs + Va}$
4a	16.4544	12.3255	9.2022	598	-490	108	1990.185	0.004141324	0.001569352	0.72518985
6	16.5055	12.0596	8.6497	598	-300	298	1990.185	0.004459278	0.001713358	0.72242681
2	13.8607	11.2209	9.1242	598	-200	398	1990.185	0.002647743	0.00105352	0.71536202
3a	13.2863	10.4532	8.0963	598	0	598	1990.185	0.002841625	0.001184262	0.70583827



Por lo tanto la porosidad a Pabs=0 es 73.15%

Tabla A.3 Porosidad Silica Gel Azul (Química Meyer)

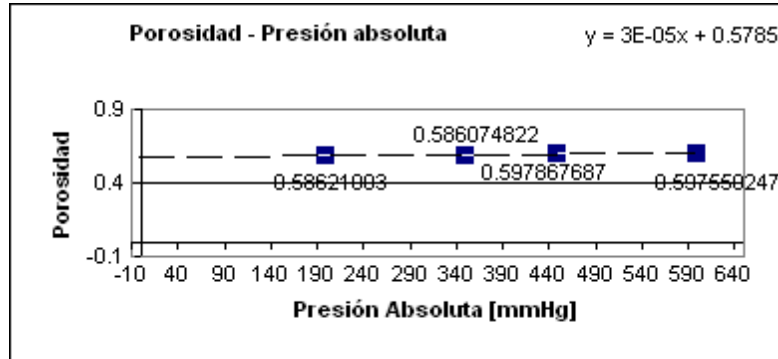
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{Va}{Vs + Va}$
a1	19.1826	16.1118	8.8991	598	-400	198	1942.8	0.00308004	0.003712528	0.45344263
6	18.8478	15.7421	8.3472	598	-250	348	1942.8	0.003115045	0.00380631	0.45006286
5*	17.6658	14.9825	8.7043	598	-150	448	1942.8	0.002691374	0.003231522	0.45440175
5	19.5561	16.2402	8.4617	598	0	598	1942.8	0.003325878	0.004003757	0.4537576



Por lo tanto la porosidad a Pabs=0 es 45.16%

Tabla A.4 Porosidad Silica Gel Blanca (Watson & Phillips)

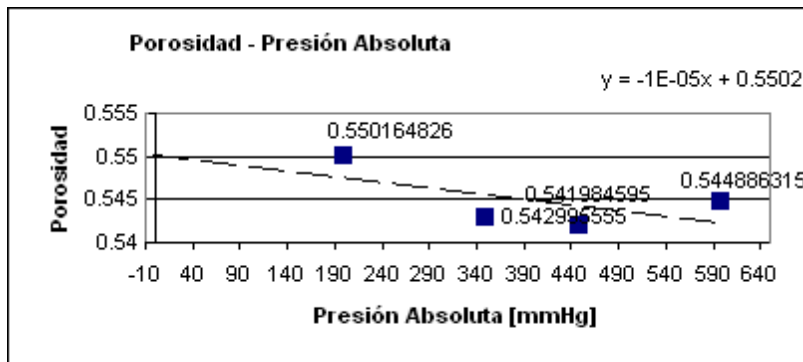
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{Va}{Vs + Va}$
1	35.204	27.6061	18.0372	598	-400	198	1778.84	0.007620762	0.005379292	0.58621003
3	27.7085	19.2738	8.6451	598	-250	348	1778.84	0.00846008	0.005975074	0.58607482
15	36.9226	26.5281	14.054	598	-150	448	1778.84	0.010425777	0.007012491	0.59786769
125	41.411	30.7496	17.9383	598	0	598	1778.84	0.01069348	0.007202053	0.59755025



Por lo tanto la porosidad a Pabs=0 es 57.85%

Tabla A.5 Porosidad Silica Gel Naranja (Watson & Phillips)

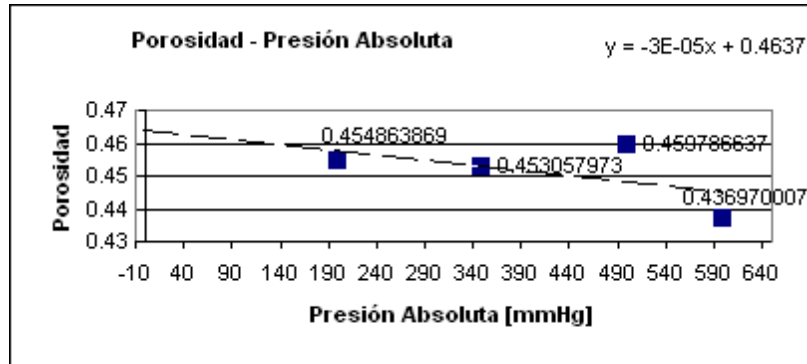
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{Va}{Vs + Va}$
12	13.4546	12.9999	12.3279	598	-400	198	1802.1	0.000456068	0.000372898	0.55016483
8	32.646	25.6779	15.0775	598	-250	348	1802.1	0.006989067	0.005882248	0.54299555
7	30.9043	24.317	14.255	598	-150	448	1802.1	0.006607121	0.005583486	0.5419846
5	29.762	23.9057	15.0643	598	0	598	1802.1	0.005873922	0.004906165	0.54488631



Por lo tanto la porosidad a Pabs=0 es 55.02%

Tabla A.6 Porosidad Pimienta Negra

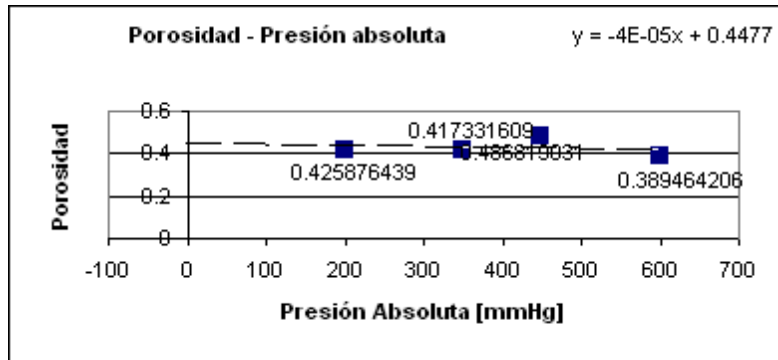
# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{V_a}{V_s + V_a}$
315	27.4051	23.9057	18.308	598	-400	198	1330.723	0.00350993	0.00420651	0.45486387
7	28.40779089	24.5456	18.3224	598	-250	348	1330.723	0.003873812	0.004676556	0.45305797
233	27.7173	23.8676	17.8305	598	-100	498	1330.723	0.003861284	0.004536707	0.45978664
61	26.648	23.584	18.3146	598	0	598	1330.723	0.00307322	0.003959802	0.43697001



Por lo tanto la porosidad a Pabs=0 es 46.37%

Tabla A.7 Porosidad Carbón Activado

# Charola	Masa Humeda [g]	Masa Seca [g]	Peso Charola [g]	Patm mmHg	Pope mmHg	Pabs mmHg	Densidad [g/l]	Vol Agua (Va) H2O [l]	Vol Silica (Vs) [l]	$e = \frac{V_a}{V_s + V_a}$
4a	21.6	12.2776	9.204	598	-400	198	243.8333	0.009350451	0.012605333	0.42587644
6	14.9004	9.8503	8.1259	598	-250	348	243.8333	0.005065296	0.007072045	0.41733161
2	25.8545	12.3473	8.865	598	-150	448	243.8333	0.013547844	0.014281478	0.48681903
3a	16.7424	10.5122	8.1236	598	0	598	243.8333	0.006248947	0.009796037	0.38946421



Por lo tanto la porosidad a Pabs=0 es 44.77%

