Anexo B: Ensayos de compresión inconfinada muestra sin remoldear

Sitio 1

Tabla 47: *Ensayo compresión inconfinada muestra 1, resistencia corte máxima 1.8* kg/cm^2 ***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	17.56	0.00
20	3	0.431	0.0002	17.57	0.02
40	4	0.575	0.0003	17.57	0.03
60	4	0.575	0.0005	17.57	0.03
80	4	0.575	0.0007	17.58	0.03
100	5	0.719	0.0009	17.58	0.04
120	8	1.150	0.0010	17.58	0.07
140	12	1.725	0.0012	17.59	0.10
160	25	3.595	0.0014	17.59	0.20
180	33	4.745	0.0015	17.59	0.27
200	44	6.326	0.0017	17.59	0.36
220	56	8.052	0.0019	17.60	0.46
240	62	8.914	0.0021	17.60	0.51
260	72	10.352	0.0022	17.60	0.59
280	103	14.810	0.0024	17.61	0.84
300	113	16.247	0.0026	17.61	0.92
320	124	17.829	0.0027	17.61	1.01
340	140	20.129	0.0029	17.62	1.14
360	150	21.567	0.0031	17.62	1.22
380	161	23.149	0.0033	17.62	1.31
400	170	24.443	0.0034	17.62	1.39
420	176	25.306	0.0036	17.63	1.44
440	181	26.025	0.0038	17.63	1.48
460	193	27.750	0.0039	17.63	1.57
480	195	28.037	0.0041	17.64	1.59
500	203	29.188	0.0043	17.64	1.65
520	203	29.188	0.0045	17.64	1.65
540	212	30.482	0.0046	17.65	1.73
560	213	30.626	0.0048	17.65	1.74
580	219	31.488	0.0050	17.65	1.78
600	219	31.488	0.0051	17.66	1.78
620	219	31.488	0.0053	17.66	1.78
640	221	31.776	0.0055	17.66	1.80
660	221	31.776	0.0057	17.66	1.80
680	221	31.776	0.0058	17.67	1.80
700	221	31.776	0.0060	17.67	1.80

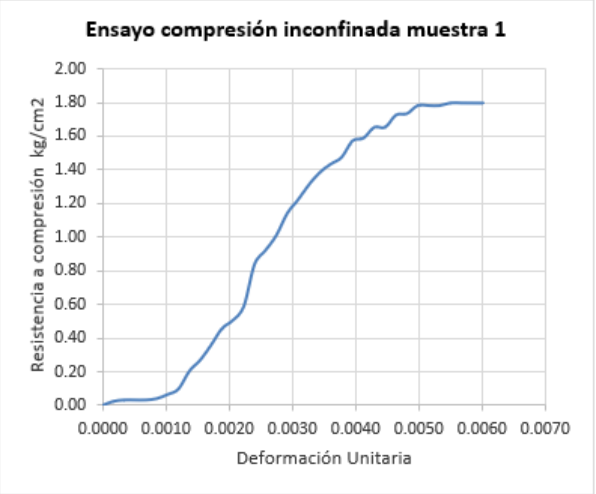


Tabla 48: *Ensayo compresión inconfinada muestra 2, resistencia corte máxima 1.39* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	17.94	0.00
20	14	2.0129452	0.000	17.94	0.11
40	28	4.0258904	0.000	17.94	0.22
60	40	5.751272	0.001	17.94	0.32
80	49	7.0453082	0.001	17.95	0.39
100	61	8.7706898	0.001	17.95	0.49
120	73	10.496071	0.001	17.95	0.58
140	82	11.790108	0.001	17.96	0.66
160	93	13.371707	0.001	17.96	0.74
180	101	14.521962	0.002	17.96	0.81
200	111	15.95978	0.002	17.97	0.89
220	120	17.253816	0.002	17.97	0.96
240	129	18.547852	0.002	17.97	1.03
260	138	19.841888	0.002	17.98	1.10
280	145	20.848361	0.002	17.98	1.16
300	152	21.854834	0.003	17.98	1.22
320	159	22.861306	0.003	17.99	1.27
340	168	24.155342	0.003	17.99	1.34
360	174	25.018033	0.003	17.99	1.39

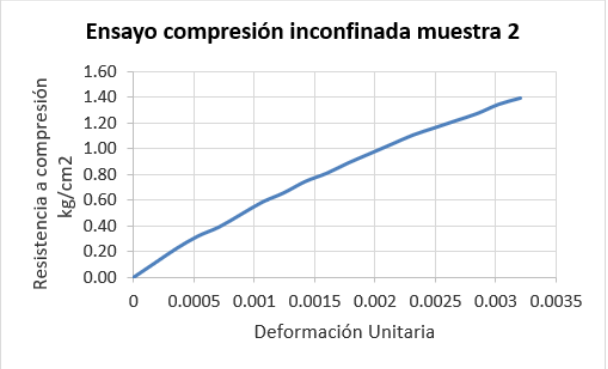


Tabla 49: *Ensayo compresión inconfinada muestra 3, resistencia corte máxima 1.48* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	18.54	0.00
20	2	0.2875636	0.000	18.54	0.02
40	6	0.8626908	0.000	18.54	0.05
60	11	1.5815998	0.001	18.55	0.09
80	19	2.7318542	0.001	18.55	0.15
100	28	4.0258904	0.001	18.55	0.22
120	39	5.6074902	0.001	18.56	0.30
140	50	7.18909	0.001	18.56	0.39
160	61	8.7706898	0.001	18.56	0.47
180	74	10.639853	0.002	18.57	0.57
200	89	12.79658	0.002	18.57	0.69
220	104	14.953307	0.002	18.57	0.81
240	119	17.110034	0.002	18.58	0.92
260	135	19.410543	0.002	18.58	1.04
280	148	21.279706	0.003	18.59	1.14
300	161	23.14887	0.003	18.59	1.25
320	174	25.018033	0.003	18.59	1.35
340	183	26.312069	0.003	18.60	1.41
360	191	27.462324	0.003	18.60	1.48
380	191	27.462324	0.004	18.60	1.48
400	191	27.462324	0.004	18.61	1.48
420	191	27.462324	0.004	18.61	1.48

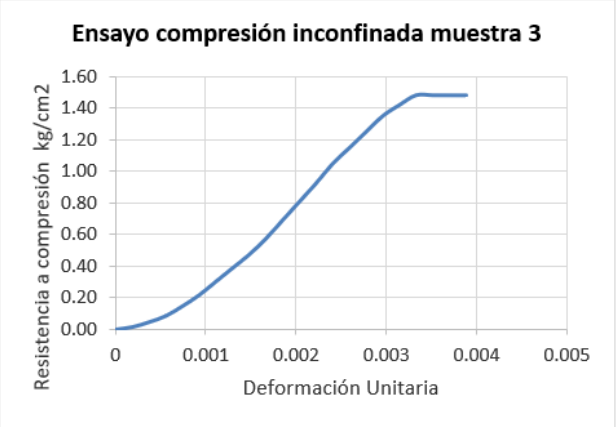


Tabla 50: *Ensayo compresión inconfinada muestra 4, resistencia corte máxima 1.41* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	18.25	0.00
20	9	1.2940362	0.000	18.26	0.07
40	16	2.3005088	0.000	18.26	0.13
60	23	3.3069814	0.001	18.27	0.18
80	29	4.1696722	0.001	18.27	0.23
100	38	5.4637084	0.001	18.27	0.30
120	49	7.0453082	0.001	18.28	0.39
140	61	8.7706898	0.001	18.28	0.48
160	78	11.21498	0.002	18.28	0.61
180	91	13.084144	0.002	18.29	0.72
200	107	15.384653	0.002	18.29	0.84
220	122	17.54138	0.002	18.29	0.96
240	138	19.841888	0.002	18.30	1.08
260	151	21.711052	0.003	18.30	1.19
280	160	23.005088	0.003	18.30	1.26
300	170	24.442906	0.003	18.31	1.34
320	173	24.874251	0.003	18.31	1.36
340	180	25.880724	0.003	18.32	1.41
360	180	25.880724	0.004	18.32	1.41
380	179	25.736942	0.004	18.32	1.40
400	140	20.129452	0.004	18.33	1.10

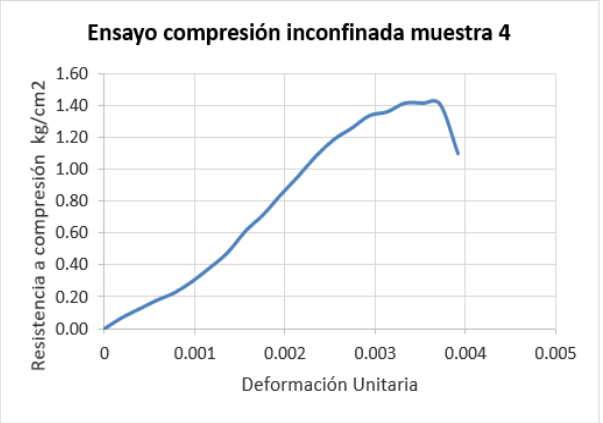


Tabla 51: *Ensayo compresión inconfinada muestra 5, resistencia corte máxima 1.07* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	25.00	0.00
20	11	1.5815998	0.000	25.01	0.06
40	22	3.1631996	0.000	25.01	0.13
60	34	4.8885812	0.001	25.02	0.20
80	41	5.8950538	0.001	25.02	0.24
100	46	6.6139628	0.001	25.03	0.26
120	51	7.3328718	0.001	25.03	0.29
140	59	8.4831262	0.001	25.03	0.34
160	78	11.21498	0.001	25.04	0.45
180	94	13.515489	0.002	25.04	0.54
200	111	15.95978	0.002	25.05	0.64
220	126	18.116507	0.002	25.05	0.72
240	141	20.273234	0.002	25.06	0.81
260	152	21.854834	0.002	25.06	0.87
280	163	23.436433	0.002	25.06	0.94
300	182	26.168288	0.003	25.07	1.04
320	187	26.887197	0.003	25.07	1.07
340	184	26.455851	0.003	25.08	1.05
360	146	20.992143	0.003	25.08	0.84
380	130	18.691634	0.003	25.09	0.75
400	123	17.685161	0.003	25.09	0.70

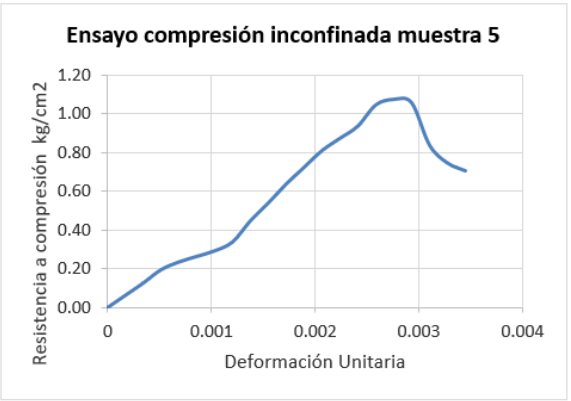
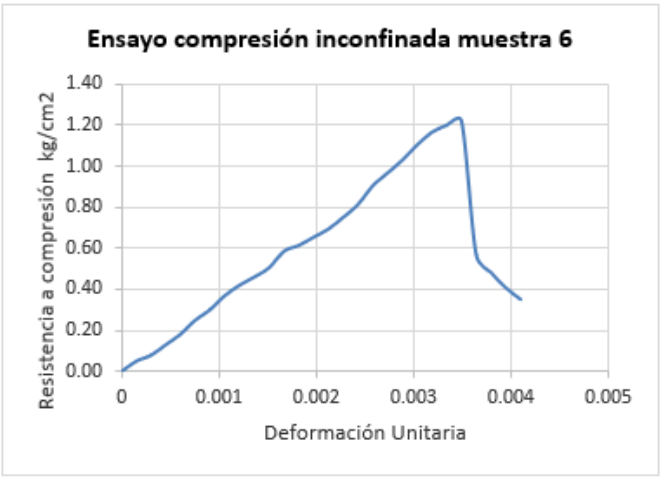


Tabla 52: *Ensayo compresión inconfinada muestra 6, resistencia corte máxima 1.22* kg/cm^2 ***.Fuente.*** *Autores*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	25.24	0.00
20	9	1.2940362	0.000	25.24	0.05
40	14	2.0129452	0.000	25.25	0.08
60	23	3.3069814	0.000	25.25	0.13
80	32	4.6010176	0.001	25.25	0.18
100	44	6.3263992	0.001	25.26	0.25
120	53	7.6204354	0.001	25.26	0.30
140	65	9.345817	0.001	25.26	0.37
160	74	10.6398532	0.001	25.27	0.42
180	81	11.6463258	0.001	25.27	0.46
200	89	12.7965802	0.002	25.28	0.51
220	103	14.8095254	0.002	25.28	0.59
240	108	15.5284344	0.002	25.28	0.61
260	115	16.534907	0.002	25.29	0.65
280	122	17.5413796	0.002	25.29	0.69
300	132	18.9791976	0.002	25.30	0.75
320	143	20.5607974	0.002	25.30	0.81
340	159	22.8613062	0.003	25.30	0.90
360	170	24.442906	0.003	25.31	0.97
380	181	26.0245058	0.003	25.31	1.03
400	194	27.8936692	0.003	25.31	1.10
420	205	29.475269	0.003	25.32	1.16
440	211	30.3379598	0.003	25.32	1.20
460	215	30.913087	0.003	25.33	1.22
480	100	14.37818	0.004	25.33	0.57
500	85	12.221453	0.004	25.33	0.48
520	72	10.3522896	0.004	25.34	0.41
540	62	8.9144716	0.004	25.34	0.35



Sitio 2

Tabla 53: *Ensayo compresión inconfinada muestra 7, resistencia corte máxima 0.99* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	25.42	0.00
20	12	1.725	0.000	25.42	0.07
40	18	2.588	0.000	25.43	0.10
60	33	4.745	0.001	25.43	0.19
80	39	5.607	0.001	25.44	0.22
100	49	7.045	0.001	25.44	0.28
120	60	8.627	0.001	25.45	0.34
140	70	10.065	0.001	25.45	0.40
160	78	11.215	0.002	25.46	0.44
180	94	13.515	0.002	25.47	0.53
200	106	15.241	0.002	25.47	0.60
220	115	16.535	0.002	25.48	0.65
240	117	16.822	0.002	25.48	0.66
260	137	19.698	0.003	25.49	0.77
280	147	21.136	0.003	25.49	0.83
300	157	22.574	0.003	25.50	0.89
320	162	23.293	0.003	25.50	0.91
340	166	23.868	0.003	25.51	0.94
360	167	24.012	0.004	25.51	0.94
380	171	24.587	0.004	25.52	0.96
400	176	25.306	0.004	25.52	0.99
420	176	25.306	0.004	25.53	0.99
440	176	25.306	0.004	25.53	0.99
460	176	25.306	0.005	25.54	0.99
480	176	25.306	0.005	25.54	0.99
500	176	25.306	0.005	25.55	0.99
520	176	25.306	0.005	25.55	0.99

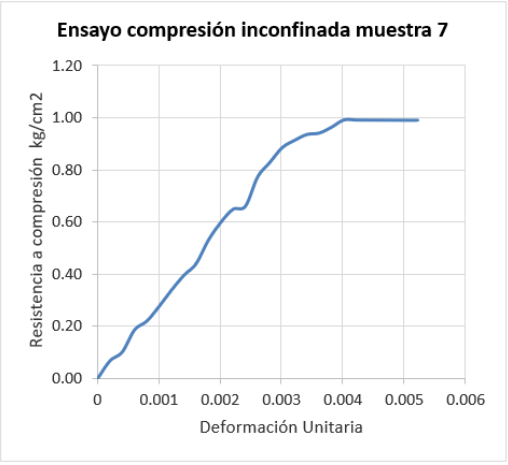


Tabla 54: *Ensayo compresión inconfinada muestra 8, resistencia corte máxima 1.03* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	25.05	0.00
20	4	0.575	0.000	25.06	0.02
40	7	1.006	0.000	25.06	0.04
60	13	1.869	0.001	25.07	0.07
80	18	2.588	0.001	25.07	0.10
100	26	3.738	0.001	25.08	0.15
120	36	5.176	0.001	25.08	0.21
140	48	6.902	0.001	25.09	0.28
160	60	8.627	0.002	25.09	0.34
180	77	11.071	0.002	25.10	0.44
200	89	12.797	0.002	25.10	0.51
220	108	15.528	0.002	25.11	0.62
240	122	17.541	0.002	25.11	0.70
260	143	20.561	0.003	25.12	0.82
280	158	22.718	0.003	25.12	0.90
300	169	24.299	0.003	25.13	0.97
320	175	25.162	0.003	25.13	1.00
340	177	25.449	0.004	25.14	1.01
360	179	25.737	0.004	25.14	1.02
380	180	25.881	0.004	25.15	1.03
400	180	25.881	0.004	25.16	1.03
420	176	25.306	0.004	25.16	1.01
440	172	24.730	0.005	25.17	0.98

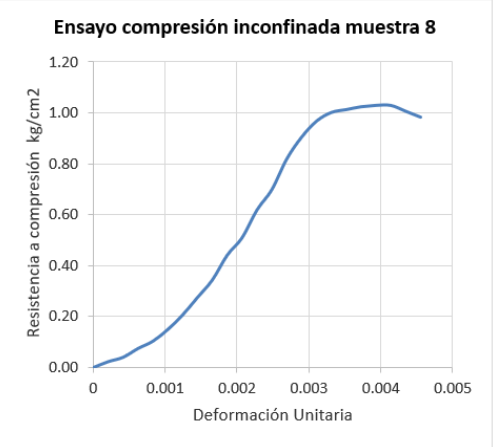


Tabla 55: *Ensayo compresión inconfinada muestra 9, resistencia corte máxima 1.25* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	24.99	0.00
20	11	1.582	0.000	25.00	0.06
40	28	4.026	0.000	25.00	0.16
60	45	6.470	0.001	25.01	0.26
80	58	8.339	0.001	25.01	0.33
100	74	10.640	0.001	25.02	0.43
120	90	12.940	0.001	25.02	0.52
140	102	14.666	0.001	25.03	0.59
160	113	16.247	0.002	25.03	0.65
180	127	18.260	0.002	25.04	0.73
200	136	19.554	0.002	25.04	0.78
220	148	21.280	0.002	25.05	0.85
240	159	22.861	0.002	25.05	0.91
260	169	24.299	0.003	25.06	0.97
280	180	25.881	0.003	25.06	1.03
300	191	27.462	0.003	25.07	1.10
320	199	28.613	0.003	25.08	1.14
340	202	29.044	0.003	25.08	1.16
360	210	30.194	0.004	25.09	1.20
380	212	30.482	0.004	25.09	1.21
400	214	30.769	0.004	25.10	1.23
420	218	31.344	0.004	25.10	1.25
440	219	31.488	0.004	25.11	1.25
460	216	31.057	0.005	25.11	1.24
480	212	30.482	0.005	25.12	1.21
500	209	30.050	0.005	25.12	1.20

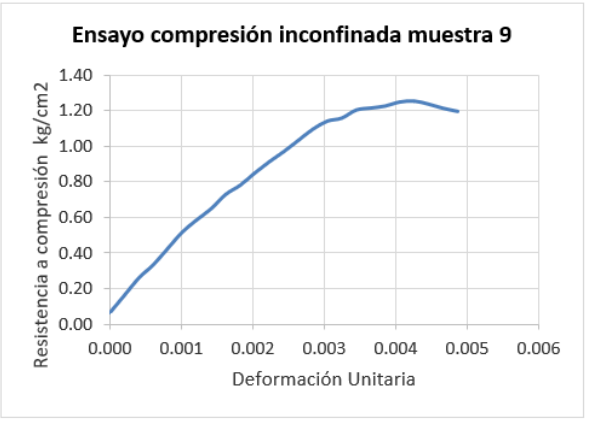
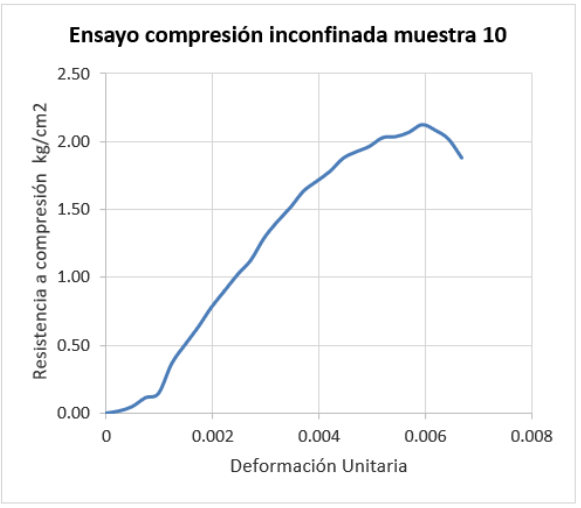


Tabla 56:*Ensayo compresión inconfinada muestra 10, resistencia corte máxima 2.13* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0	17.68	0.00
20	2	0.288	0.000	17.68	0.02
40	6	0.863	0.000	17.69	0.05
60	14	2.013	0.001	17.69	0.11
80	18	2.588	0.001	17.70	0.15
100	45	6.470	0.001	17.70	0.37
120	62	8.914	0.001	17.70	0.50
140	78	11.215	0.002	17.71	0.63
160	96	13.803	0.002	17.71	0.78
180	111	15.960	0.002	17.72	0.90
200	126	18.117	0.002	17.72	1.02
220	139	19.986	0.003	17.73	1.13
240	159	22.861	0.003	17.73	1.29
260	174	25.018	0.003	17.74	1.41
280	187	26.887	0.003	17.74	1.52
300	202	29.044	0.004	17.74	1.64
320	211	30.338	0.004	17.75	1.71
340	220	31.632	0.004	17.75	1.78
360	232	33.357	0.004	17.76	1.88
380	238	34.220	0.005	17.76	1.93
400	243	34.939	0.005	17.77	1.97
420	251	36.089	0.005	17.77	2.03
440	252	36.233	0.005	17.78	2.04
460	256	36.808	0.006	17.78	2.07
480	263	37.815	0.006	17.78	2.13
500	258	37.096	0.006	17.79	2.09
520	250	35.945	0.006	17.79	2.02
540	233	33.501	0.007	17.80	1.88



Sitio 3

Tabla 57:*Ensayo compresión inconfinada muestra 11, resistencia corte máxima 1.49* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	25.63	0.00
20	45	6.470	0.0002	25.63	0.25
40	62	8.914	0.0003	25.64	0.35
60	76	10.927	0.0005	25.64	0.43
80	92	13.228	0.0006	25.64	0.52
100	107	15.385	0.0008	25.65	0.60
120	119	17.110	0.0009	25.65	0.67
140	134	19.267	0.0011	25.66	0.75
160	154	22.142	0.0013	25.66	0.86
180	170	24.443	0.0014	25.66	0.95
200	182	26.168	0.0016	25.67	1.02
220	195	28.037	0.0017	25.67	1.09
240	207	29.763	0.0019	25.68	1.16
260	214	30.769	0.0020	25.68	1.20
280	225	32.351	0.0022	25.68	1.26
300	236	33.933	0.0024	25.69	1.32
320	243	34.939	0.0025	25.69	1.36
340	251	36.089	0.0027	25.70	1.40
360	261	37.527	0.0028	25.70	1.46
380	266	38.246	0.0030	25.70	1.49
400	265	38.102	0.0031	25.71	1.48
420	262	37.671	0.0033	25.71	1.47
440	257	36.952	0.0035	25.72	1.44
460	249	35.802	0.0036	25.72	1.39

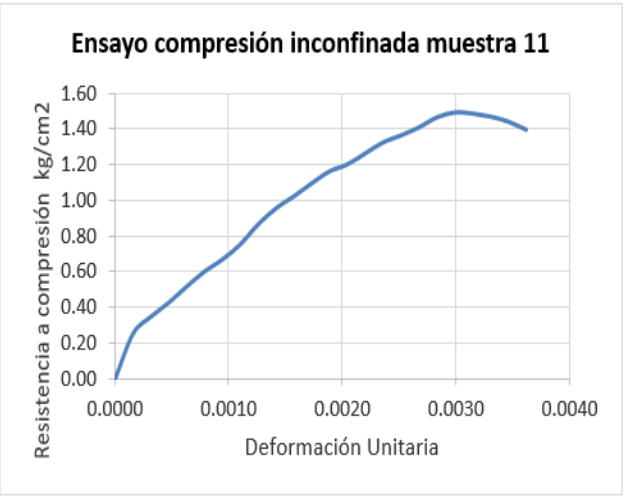


Tabla 58:*Ensayo compresión inconfinada muestra 12, resistencia corte máxima 1.91* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	25.17	0.00
20	16	2.301	0.0002	25.17	0.09
40	31	4.457	0.0003	25.17	0.18
60	47	6.758	0.0005	25.18	0.27
80	67	9.633	0.0007	25.18	0.38
100	95	13.659	0.0008	25.19	0.54
120	114	16.391	0.0010	25.19	0.65
140	128	18.404	0.0012	25.19	0.73
160	144	20.705	0.0013	25.20	0.82
180	166	23.868	0.0015	25.20	0.95
200	189	27.175	0.0017	25.21	1.08
220	209	30.050	0.0018	25.21	1.19
240	228	32.782	0.0020	25.22	1.30
260	245	35.227	0.0022	25.22	1.40
280	256	36.808	0.0023	25.22	1.46
300	270	38.821	0.0025	25.23	1.54
320	277	39.828	0.0027	25.23	1.58
340	285	40.978	0.0028	25.24	1.62
360	298	42.847	0.0030	25.24	1.70
380	312	44.860	0.0032	25.24	1.78
400	319	45.866	0.0033	25.25	1.82
420	326	46.873	0.0035	25.25	1.86
440	332	47.736	0.0036	25.26	1.89
460	336	48.311	0.0038	25.26	1.91
480	335	48.167	0.0040	25.27	1.91
500	335	48.167	0.0041	25.27	1.91
520	335	48.167	0.0043	25.27	1.91
540	335	48.167	0.0045	25.28	1.91

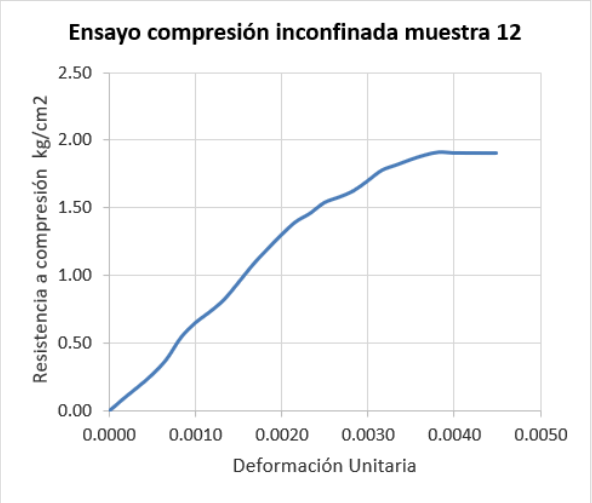


Tabla 59:*Ensayo compresión inconfinada muestra 13, resistencia corte máxima 1.60* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	17.85	0.00
20	8	1.150	0.0002	17.85	0.06
40	17	2.444	0.0004	17.85	0.14
60	34	4.889	0.0005	17.86	0.27
80	44	6.326	0.0007	17.86	0.35
100	55	7.908	0.0009	17.86	0.44
120	69	9.921	0.0011	17.87	0.56
140	79	11.359	0.0012	17.87	0.64
160	89	12.797	0.0014	17.87	0.72
180	100	14.378	0.0016	17.87	0.80
200	108	15.528	0.0018	17.88	0.87
220	117	16.822	0.0019	17.88	0.94
240	128	18.404	0.0021	17.88	1.03
260	137	19.698	0.0023	17.89	1.10
280	145	20.848	0.0025	17.89	1.17
300	152	21.855	0.0027	17.89	1.22
320	159	22.861	0.0028	17.90	1.28
340	165	23.724	0.0030	17.90	1.33
360	169	24.299	0.0032	17.90	1.36
380	177	25.449	0.0034	17.91	1.42
400	183	26.312	0.0035	17.91	1.47
420	190	27.319	0.0037	17.91	1.53
440	194	27.894	0.0039	17.92	1.56
460	197	28.325	0.0041	17.92	1.58
480	200	28.756	0.0043	17.92	1.60
500	199	28.613	0.0044	17.93	1.60
520	196	28.181	0.0046	17.93	1.57
540	184	26.456	0.0048	17.93	1.48
560	174	25.018	0.0050	17.94	1.39
580	163	23.436	0.0051	17.94	1.31

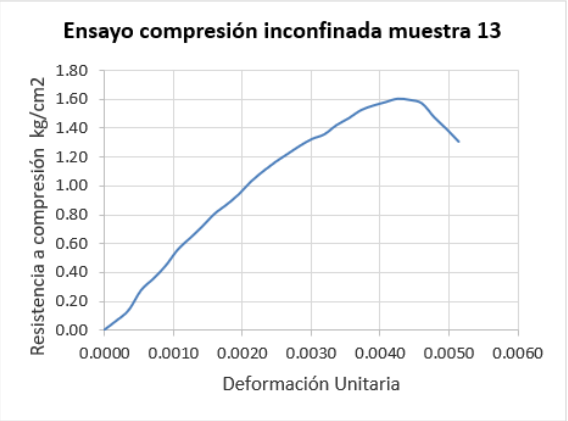


Tabla 60:*Ensayo compresión inconfinada muestra 14, resistencia corte máxima 1.30* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	25.63	0.00
20	21	3.019	0.0002	25.63	0.12
40	38	5.464	0.0003	25.64	0.21
60	51	7.333	0.0005	25.64	0.29
80	69	9.921	0.0007	25.64	0.39
100	83	11.934	0.0008	25.65	0.47
120	96	13.803	0.0010	25.65	0.54
140	113	16.247	0.0011	25.66	0.63
160	128	18.404	0.0013	25.66	0.72
180	142	20.417	0.0015	25.67	0.80
200	159	22.861	0.0016	25.67	0.89
220	171	24.587	0.0018	25.67	0.96
240	183	26.312	0.0020	25.68	1.02
260	196	28.181	0.0021	25.68	1.10
280	203	29.188	0.0023	25.69	1.14
300	213	30.626	0.0025	25.69	1.19
320	220	31.632	0.0026	25.70	1.23
340	226	32.495	0.0028	25.70	1.26
360	230	33.070	0.0030	25.70	1.29
380	233	33.501	0.0031	25.71	1.30
400	227	32.638	0.0033	25.71	1.27
420	225	32.351	0.0034	25.72	1.26
440	219	31.488	0.0036	25.72	1.22
460	198	28.469	0.0038	25.73	1.11
480	190	27.319	0.0039	25.73	1.06
500	170	24.443	0.0041	25.73	0.95

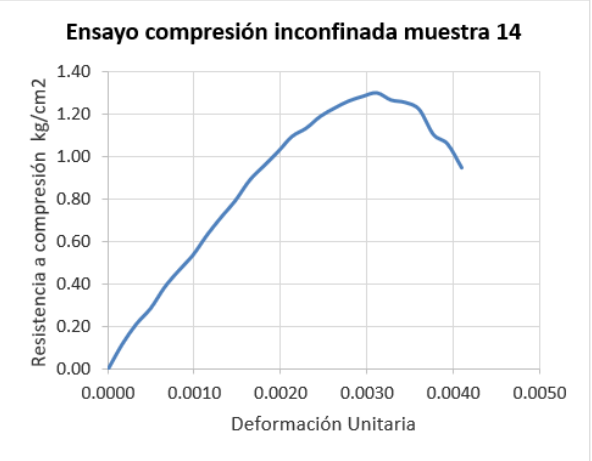


Tabla 61:*Ensayo compresión inconfinada muestra 15, resistencia corte máxima 1.75* kg/cm^2*.* ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	17.71	0.00
20	1	0.144	0.0002	17.71	0.01
40	5	0.719	0.0003	17.71	0.04
60	14	2.013	0.0005	17.72	0.11
80	22	3.163	0.0007	17.72	0.18
100	29	4.170	0.0009	17.72	0.24
120	42	6.039	0.0010	17.73	0.34
140	50	7.189	0.0012	17.73	0.41
160	58	8.339	0.0014	17.73	0.47
180	69	9.921	0.0016	17.74	0.56
200	82	11.790	0.0017	17.74	0.66
220	91	13.084	0.0019	17.74	0.74
240	103	14.810	0.0021	17.75	0.83
260	112	16.104	0.0023	17.75	0.91
280	123	17.685	0.0024	17.75	1.00
300	136	19.554	0.0026	17.75	1.10
320	142	20.417	0.0028	17.76	1.15
340	149	21.423	0.0029	17.76	1.21
360	159	22.861	0.0031	17.76	1.29
380	165	23.724	0.0033	17.77	1.34
400	173	24.874	0.0035	17.77	1.40
420	184	26.456	0.0036	17.77	1.49
440	190	27.319	0.0038	17.78	1.54
460	194	27.894	0.0040	17.78	1.57
480	201	28.900	0.0042	17.78	1.63
500	206	29.619	0.0043	17.79	1.67
520	212	30.482	0.0045	17.79	1.71
540	213	30.626	0.0047	17.79	1.72
560	216	31.057	0.0049	17.79	1.75
580	216	31.057	0.0050	17.80	1.75
600	216	31.057	0.0052	17.80	1.74
620	214	30.769	0.0054	17.80	1.73
640	190	27.319	0.0055	17.81	1.53



Tabla 62:*Ensayo compresión inconfinada muestra 16, resistencia corte máxima 1.36* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	25.72	0.00
20	3	0.431	0.0002	25.73	0.02
40	13	1.869	0.0003	25.73	0.07
60	26	3.738	0.0005	25.73	0.15
80	37	5.320	0.0007	25.74	0.21
100	50	7.189	0.0009	25.74	0.28
120	63	9.058	0.0010	25.75	0.35
140	84	12.078	0.0012	25.75	0.47
160	96	13.803	0.0014	25.76	0.54
180	109	15.672	0.0015	25.76	0.61
200	124	17.829	0.0017	25.76	0.69
220	135	19.411	0.0019	25.77	0.75
240	148	21.280	0.0020	25.77	0.83
260	165	23.724	0.0022	25.78	0.92
280	180	25.881	0.0024	25.78	1.00
300	194	27.894	0.0026	25.79	1.08
320	209	30.050	0.0027	25.79	1.17
340	219	31.488	0.0029	25.80	1.22
360	227	32.638	0.0031	25.80	1.27
380	236	33.933	0.0032	25.80	1.31
400	240	34.508	0.0034	25.81	1.34
420	243	34.939	0.0036	25.81	1.35
440	245	35.227	0.0037	25.82	1.36
460	245	35.227	0.0039	25.82	1.36
480	245	35.227	0.0041	25.83	1.36
500	245	35.227	0.0043	25.83	1.36
520	238	34.220	0.0044	25.84	1.32

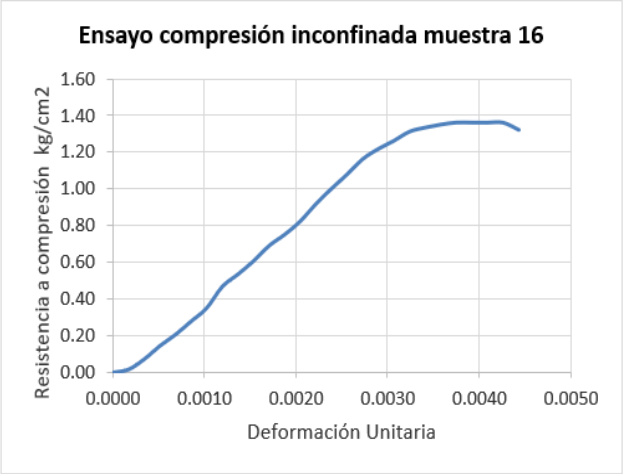


Tabla 63:*Ensayo compresión inconfinada muestra 17, resistencia corte máxima 1.46* kg/cm^2. ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	17.78	0.00
20	4	0.575	0.0002	17.79	0.03
40	9	1.294	0.0004	17.79	0.07
60	16	2.301	0.0006	17.79	0.13
80	21	3.019	0.0008	17.80	0.17
100	25	3.595	0.0010	17.80	0.20
120	28	4.026	0.0012	17.80	0.23
140	35	5.032	0.0013	17.81	0.28
160	40	5.751	0.0015	17.81	0.32
180	46	6.614	0.0017	17.81	0.37
200	49	7.045	0.0019	17.82	0.40
220	54	7.764	0.0021	17.82	0.44
240	59	8.483	0.0023	17.82	0.48
260	64	9.202	0.0025	17.83	0.52
280	72	10.352	0.0027	17.83	0.58
300	78	11.215	0.0029	17.83	0.63
320	85	12.221	0.0031	17.84	0.69
340	94	13.515	0.0033	17.84	0.76
360	104	14.953	0.0035	17.84	0.84
380	111	15.960	0.0037	17.85	0.89
400	117	16.822	0.0038	17.85	0.94
420	126	18.117	0.0040	17.85	1.01
440	133	19.123	0.0042	17.86	1.07
460	142	20.417	0.0044	17.86	1.14
480	148	21.280	0.0046	17.87	1.19
500	155	22.286	0.0048	17.87	1.25
520	164	23.580	0.0050	17.87	1.32
540	169	24.299	0.0052	17.88	1.36
560	174	25.018	0.0054	17.88	1.40
580	179	25.737	0.0056	17.88	1.44
600	182	26.168	0.0058	17.89	1.46
620	182	26.168	0.0060	17.89	1.46
640	160	23.005	0.0062	17.89	1.29
660	140	20.129	0.0063	17.90	1.12



Tabla 64:*Ensayo compresión inconfinada muestra 18, resistencia corte máxima 1.18* kg/cm^2***.Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	17.74	0.00
20	4	0.575	0.0002	17.74	0.03
40	9	1.294	0.0004	17.74	0.07
60	16	2.301	0.0006	17.75	0.13
80	26	3.738	0.0008	17.75	0.21
100	34	4.889	0.0010	17.75	0.28
120	39	5.607	0.0012	17.76	0.32
140	45	6.470	0.0014	17.76	0.36
160	54	7.764	0.0016	17.77	0.44
180	62	8.914	0.0018	17.77	0.50
200	70	10.065	0.0020	17.77	0.57
220	79	11.359	0.0022	17.78	0.64
240	90	12.940	0.0024	17.78	0.73
260	100	14.378	0.0026	17.78	0.81
280	106	15.241	0.0028	17.79	0.86
300	115	16.535	0.0030	17.79	0.93
320	120	17.254	0.0032	17.79	0.97
340	126	18.117	0.0034	17.80	1.02
360	131	18.835	0.0036	17.80	1.06
380	134	19.267	0.0038	17.80	1.08
400	136	19.554	0.0040	17.81	1.10
420	140	20.129	0.0042	17.81	1.13
440	142	20.417	0.0044	17.82	1.15
460	145	20.848	0.0046	17.82	1.17
480	146	20.992	0.0048	17.82	1.18
500	146	20.992	0.0050	17.83	1.18
520	146	20.992	0.0052	17.83	1.18
540	143	20.561	0.0054	17.83	1.15
560	125	17.973	0.0056	17.84	1.01

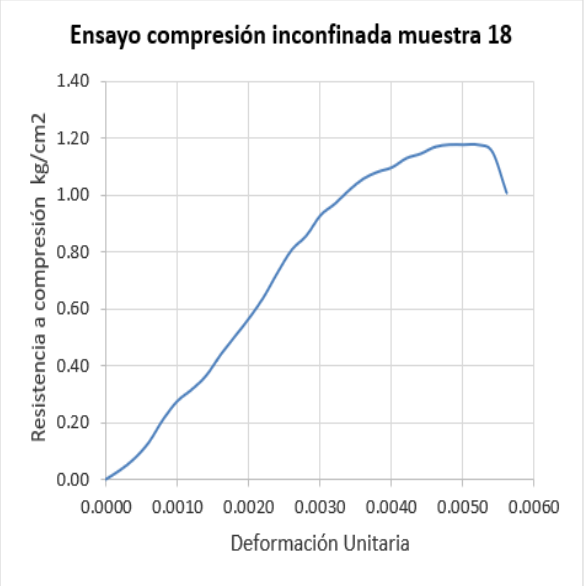


Tabla 65:*Ensayo compresión inconfinada muestra 19, resistencia corte máxima 1.18* kg/cm^2*.* ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	25.15	0.00
20	13	1.869	0.0002	25.15	0.07
40	23	3.307	0.0003	25.16	0.13
60	33	4.745	0.0005	25.16	0.19
80	42	6.039	0.0007	25.17	0.24
100	51	7.333	0.0009	25.17	0.29
120	56	8.052	0.0010	25.18	0.32
140	64	9.202	0.0012	25.18	0.37
160	72	10.352	0.0014	25.18	0.41
180	82	11.790	0.0015	25.19	0.47
200	90	12.940	0.0017	25.19	0.51
220	98	14.091	0.0019	25.20	0.56
240	107	15.385	0.0021	25.20	0.61
260	112	16.104	0.0022	25.21	0.64
280	119	17.110	0.0024	25.21	0.68
300	127	18.260	0.0026	25.21	0.72
320	134	19.267	0.0027	25.22	0.76
340	144	20.705	0.0029	25.22	0.82
360	150	21.567	0.0031	25.23	0.85
380	157	22.574	0.0032	25.23	0.89
400	164	23.580	0.0034	25.24	0.93
420	171	24.587	0.0036	25.24	0.97
440	177	25.449	0.0038	25.25	1.01
460	182	26.168	0.0039	25.25	1.04
480	190	27.319	0.0041	25.25	1.08
500	193	27.750	0.0043	25.26	1.10
520	194	27.894	0.0044	25.26	1.10
540	195	28.037	0.0046	25.27	1.11
560	199	28.613	0.0048	25.27	1.13
580	200	28.756	0.0050	25.28	1.14
600	202	29.044	0.0051	25.28	1.15
620	203	29.188	0.0053	25.28	1.15
640	205	29.475	0.0055	25.29	1.17
660	206	29.619	0.0056	25.29	1.17
680	207	29.763	0.0058	25.30	1.18
700	204	29.331	0.0060	25.30	1.16
720	198	28.469	0.0062	25.31	1.12
740	[illegible]	26.456	0.0063	25.31	1.05

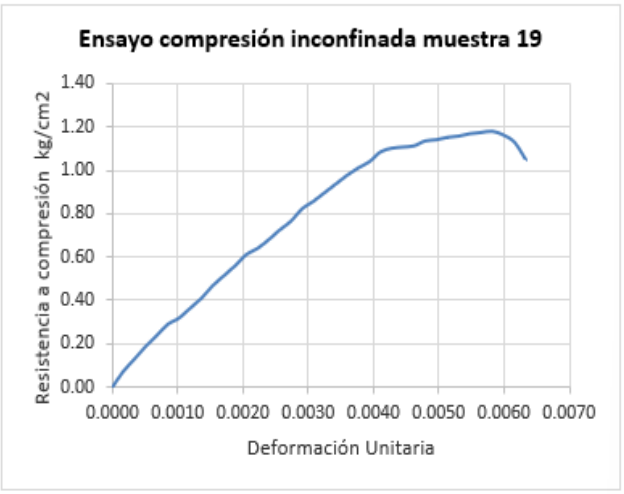


Tabla 66:*Ensayo compresión inconfinada muestra 20, resistencia corte máxima 1.37* kg/cm^2*.* ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	28.91	0.00
20	7	1.006	0.0002	28.92	0.03
40	16	2.301	0.0003	28.92	0.08
60	24	3.451	0.0005	28.93	0.12
80	36	5.176	0.0007	28.93	0.18
100	50	7.189	0.0008	28.93	0.25
120	68	9.777	0.0010	28.94	0.34
140	90	12.940	0.0012	28.94	0.45
160	109	15.672	0.0013	28.95	0.54
180	124	17.829	0.0015	28.95	0.62
200	134	19.267	0.0017	28.96	0.67
220	145	20.848	0.0018	28.96	0.72
240	161	23.149	0.0020	28.97	0.80
260	176	25.306	0.0022	28.97	0.87
280	192	27.606	0.0023	28.98	0.95
300	203	29.188	0.0025	28.98	1.01
320	212	30.482	0.0027	28.99	1.05
340	222	31.920	0.0028	28.99	1.10
360	231	33.214	0.0030	29.00	1.15
380	238	34.220	0.0032	29.00	1.18
400	244	35.083	0.0033	29.01	1.21
420	253	36.377	0.0035	29.01	1.25
440	260	37.383	0.0037	29.02	1.29
460	264	37.958	0.0038	29.02	1.31
480	271	38.965	0.0040	29.03	1.34
500	274	39.396	0.0042	29.03	1.36
520	277	39.828	0.0043	29.04	1.37
540	276	39.684	0.0045	29.04	1.37
560	276	39.684	0.0046	29.05	1.37
580	274	39.396	0.0048	29.05	1.36
600	264	37.958	0.0050	29.06	1.31
620	242	34.795	0.0051	29.06	1.20

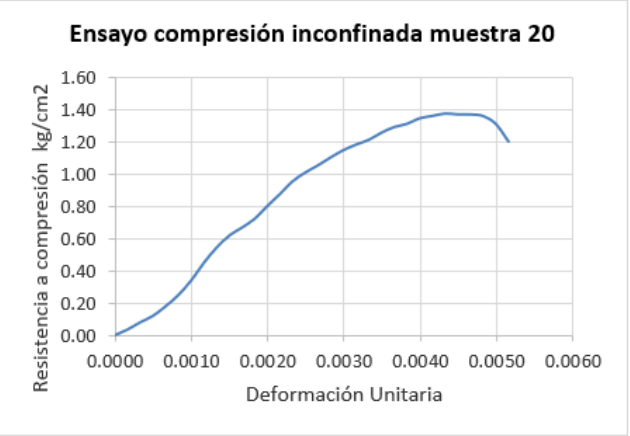


Tabla 67:*Ensayo compresión inconfinada muestra 21, resistencia corte máxima 1.39* kg/cm^2*.* ***Fuente.*** *Autores.*

Deformación 10^{-3} mm	Lect anillo 10^{-4} pl	Carga Kg	defor. unitaria	Area Correg cm^2	Esfuerzo kg/cm^2
0	0	0	0.0000	21.28	0.00
20	14	2.013	0.0002	21.28	0.09
40	26	3.738	0.0003	21.29	0.18
60	42	6.039	0.0005	21.29	0.28
80	52	7.477	0.0006	21.29	0.35
100	63	9.058	0.0008	21.30	0.43
120	74	10.640	0.0009	21.30	0.50
140	84	12.078	0.0011	21.30	0.57
160	95	13.659	0.0012	21.31	0.64
180	105	15.097	0.0014	21.31	0.71
200	115	16.535	0.0015	21.31	0.78
220	123	17.685	0.0017	21.32	0.83
240	130	18.692	0.0018	21.32	0.88
260	141	20.273	0.0020	21.32	0.95
280	147	21.136	0.0021	21.33	0.99
300	157	22.574	0.0023	21.33	1.06
320	166	23.868	0.0025	21.33	1.12
340	175	25.162	0.0026	21.33	1.18
360	184	26.456	0.0028	21.34	1.24
380	189	27.175	0.0029	21.34	1.27
400	197	28.325	0.0031	21.34	1.33
420	204	29.331	0.0032	21.35	1.37
440	206	29.619	0.0034	21.35	1.39
460	206	29.619	0.0035	21.35	1.39
480	202	29.044	0.0037	21.36	1.36
500	195	28.037	0.0038	21.36	1.31
520	171	24.587	0.0040	21.36	1.15
540	153	21.999	0.0041	21.37	1.03

