



Laboratorio di Oceanologia Sperimentale ed Ecologia Marina
DEB – Università degli Studi della Tuscia

Allegato



Laboratorio di Oceanologia Sperimentale ed Ecologia Marina
DEB – Università degli Studi della Toscana

Risultati dell'applicazione degli indici statistici

		B01	B02	B03	B04
FOLK AND	Media	122.7	579.9	322.5	429.8
WARD	Classazione	2.244	2.878	2.865	3.068
(mm)	Skenness	0.626	-0.371	-0.101	-0.188
	Kurtosis	2.932	0.678	0.694	0.614
FOLK AND	Media	3.027	0.786	1.633	1.218
WARD	Classazione	1.166	1.575	1.518	1.617
(phi)	Skenness	-0.626	0.371	0.101	0.188
	Kurtosis	2.932	0.678	0.694	0.614
FOLK AND	Media	Sabbia molto fine	Sabbia grossolana	Sabbia media	Sabbia media
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skenness	Estremamente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche fini	Asimmetrica verso frazioni granulometriche fini	Asimmetrica verso frazioni granulometriche fini
	Kurtosis	Molto leptocurtica	Platicurtica	Platicurtica	Molto platicurtica
	Moda 1 (mm):	94.00	1500.0	94.00	750.0
	Moda 2 (mm):		94.00	750.0	94.00
	Moda 1 (phi):	3.494	-0.500	3.494	0.500
	Moda 2 (phi):		3.494	0.500	3.494
	D ₁₀ (mm):	69.03	103.3	81.57	87.40
	D ₅₀ (mm):	99.48	682.7	365.2	478.2
	D ₉₀ (mm):	596.2	2400.0	1265.8	1962.3
	(D ₉₀ / D ₁₀) (mm):	8.638	23.23	15.52	22.45
	(D ₉₀ - D ₁₀) (mm):	527.2	2296.7	1184.2	1874.9
	(D ₇₅ / D ₂₅) (mm):	1.579	5.288	6.339	7.233
	(D ₇₅ - D ₂₅) (mm):	45.87	1186.1	641.6	955.0
	D ₁₀ (phi):	0.746	-1.263	-0.340	-0.973
	D ₅₀ (phi):	3.339	0.551	1.453	1.064
	D ₉₀ (phi):	3.837	3.275	3.616	3.516
	(D ₉₀ / D ₁₀) (phi):	5.169	-2.593	-10.635	-3.615
	(D ₉₀ - D ₁₀) (phi):	3.111	4.538	3.956	4.489
	(D ₇₅ / D ₂₅) (phi):	1.220	-3.379	7.787	-18.258
	(D ₇₅ - D ₂₅) (phi):	0.659	2.403	2.664	2.855

		B10	B11	B18	B19
FOLK AND	Media	179.4	238.9	196.4	145.6
WARD	Classazione	2.720	3.180	2.691	2.132
(mm)	Skewness	0.641	0.477	0.464	0.475
	Kurtosis	1.317	0.741	0.795	1.153
FOLK AND	Media	2.479	1.950	2.348	2.780
WARD	Classazione	1.443	1.669	1.428	1.092
(phi)	Skewness	-0.641	-0.477	-0.464	-0.475
	Kurtosis	1.317	0.741	0.795	1.153
FOLK AND	Media	Sabbia fine	Sabbia media	Sabbia fine	Sabbia fine
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skewness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane
	Kurtosis	Leptocurtica	Platicurtica	Platicurtica	Leptocurtica
	Moda 1 (mm):	94.00	94.00	94.00	94.00
	Moda 2 (mm):		1500.0	375.0	
	Moda 1 (phi):	3.494	3.494	3.494	3.494
	Moda 2 (phi):		-0.500	1.500	
	D ₁₀ (mm):	70.86	73.74	72.84	71.67
	D ₅₀ (mm):	113.4	159.1	145.2	120.1
	D ₉₀ (mm):	2242.8	2132.9	890.5	529.1
	(D ₉₀ / D ₁₀) (mm):	31.65	28.92	12.22	7.382
	(D ₉₀ - D ₁₀) (mm):	2171.9	2059.2	817.7	457.4
	(D ₇₅ / D ₂₅) (mm):	2.554	5.257	4.816	2.515
	(D ₇₅ - D ₂₅) (mm):	131.3	397.5	345.7	131.8
	D ₁₀ (phi):	-1.165	-1.093	0.167	0.918
	D ₅₀ (phi):	3.140	2.652	2.784	3.058
	D ₉₀ (phi):	3.819	3.761	3.779	3.802
	(D ₉₀ / D ₁₀) (phi):	-3.277	-3.442	22.59	4.140
	(D ₉₀ - D ₁₀) (phi):	4.984	4.854	3.612	2.884
	(D ₇₅ / D ₂₅) (phi):	1.612	3.332	2.895	1.607
	(D ₇₅ - D ₂₅) (phi):	1.355	2.394	2.268	1.351

		B20	B21	B22	B23
FOLK AND	Media	161.0	150.0	269.7	459.0
WARD	Classazione	2.475	2.256	2.706	2.980
(mm)	Skewness	0.565	0.514	0.075	-0.166
	Kurtosis	1.212	1.201	0.856	0.651
FOLK AND	Media	2.635	2.737	1.890	1.123
WARD	Classazione	1.307	1.174	1.436	1.575
(phi)	Skewness	-0.565	-0.514	-0.075	0.166
	Kurtosis	1.212	1.201	0.856	0.651
FOLK AND	Media	Sabbia fine	Sabbia fine	Sabbia media	Sabbia media
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skewness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Simmetrica	Asimmetrica verso frazioni granulometriche fini
	Kurtosis	Leptocurtica	Leptocurtica	Platicurtica	Molto Platicurtica
	Moda 1 (mm):	94.00	94.00	94.00	1500.0
	Moda 2 (mm):			375.0	187.5
	Moda 1 (phi):	3.494	3.494	3.494	-0.500
	Moda 2 (phi):			1.500	2.500
	D ₀ (mm):	71.61	71.62	81.11	96.31
	D ₅₀ (mm):	119.6	119.6	269.0	501.8
	D ₉₀ (mm):	781.9	596.1	1005.5	1840.7
	(D ₉₀ / D ₁₀) (mm):	10.92	8.323	12.40	19.11
	(D ₉₀ - D ₁₀) (mm):	710.3	524.4	924.4	1744.4
	(D ₇₅ / D ₂₅) (mm):	2.825	2.607	4.413	6.782
	(D ₇₅ - D ₂₅) (mm):	158.4	139.5	404.5	1022.7
	D ₁₀ (phi):	0.355	0.746	-0.008	-0.880
	D ₅₀ (phi):	3.064	3.064	1.894	0.995
	D ₉₀ (phi):	3.804	3.804	3.624	3.376
	(D ₉₀ / D ₁₀) (phi):	10.71	5.095	-458.064	-3.835
	(D ₉₀ - D ₁₀) (phi):	3.449	3.057	3.632	4.256
	(D ₇₅ / D ₂₅) (phi):	1.739	1.645	3.290	-9.519
	(D ₇₅ - D ₂₅) (phi):	1.498	1.382	2.142	2.762

		B31	B32	B36	B37
FOLK AND	Media	278.5	206.5	181.7	191.3
WARD	Classazione	2.721	2.897	2.015	2.566
	Skewness (mm)	0.335	0.335	0.158	0.356
	Kurtosis	0.924	0.978	1.185	1.147
FOLK AND	Media	1.844	2.276	2.461	2.386
WARD	Classazione	1.444	1.534	1.011	1.360
	Skewness (phi)	-0.335	-0.335	-0.138	-0.356
	Kurtosis	0.924	0.978	1.185	1.147
FOLK AND	Media	Sabbia media	Sabbia fine	Sabbia fine	Sabbia fine
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skewness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane
	Kurtosis	Mesokurtic	Mesokurtic	Leptokurtic	Leptokurtic
	Moda 1 (mm):	187.5	94.00	187.5	94.00
	Moda 2 (mm):		1500.0		1500.0
	Moda 1 (phi):	2.500	3.494	2.500	3.494
	Moda 2 (phi):		-0.500		-0.500
	D₁₀ (mm):	89.33	73.05	80.72	75.93
	D₅₀ (mm):	212.6	139.3	175.7	166.0
	D₉₀ (mm):	1506.3	1456.0	448.4	1137.9
	(D₉₀ / D₁₀) (mm):	16.86	19.66	5.555	14.99
	(D₉₀ - D₁₀) (mm):	1417.0	1362.9	367.7	1062.0
	(D₇₅ / D₂₅) (mm):	3.954	3.876	2.279	3.258
	(D₇₅ - D₂₅) (mm):	405.6	262.3	149.8	226.9
	D₁₀ (phi):	-0.591	-0.522	1.157	-0.186
	D₅₀ (phi):	2.234	2.844	2.508	2.591
	D₉₀ (phi):	3.485	3.775	3.631	3.719
	(D₉₀ / D₁₀) (phi):	-5.886	-7.231	3.138	-19.955
	(D₉₀ - D₁₀) (phi):	4.076	4.297	2.474	3.906
	(D₇₅ / D₂₅) (phi):	3.251	2.303	1.624	2.058
	(D₇₅ - D₂₅) (phi):	1.983	1.955	1.189	1.704

		B38	B48	B49	B50
FOLK AND	Media	178.5	153.4	178.3	221.0
WARD	Classazione	2.537	2.263	2.327	3.105
(mm)	Skewness	0.540	0.521	0.402	0.641
	Kurtosis	0.819	0.999	0.824	0.751
FOLK AND	Media	2.486	2.704	2.488	2.178
WARD	Classazione	1.343	1.178	1.218	1.635
(phi)	Skewness	-0.540	-0.521	-0.402	-0.641
	Kurtosis	0.819	0.999	0.824	0.751
FOLK AND	Media	Sabbia fine	Sabbia fine	Sabbia fine	Sabbia fine
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skewness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane
	Kurtosis	Platycurtica	Mesocurtic	Platycurtica	Platycurtica
	Moda 1 (mm):	94.00	94.00	94.00	94.00
	Moda 2 (mm):				
	Moda 1 (phi):	3.494	3.494	3.494	3.494
	Moda 2 (phi):				
	D ₁₀ (mm):	72.32	71.57	73.17	71.79
	D ₅₀ (mm):	126.7	119.2	141.4	121.1
	D ₉₀ (mm):	812.3	552.7	676.2	2052.5
	(D ₉₀ /D ₁₀) (mm):	11.23	7.43	9.242	28.59
	(D ₉₀ -D ₁₀) (mm):	739.9	461.2	603.0	1980.7
	(D ₇₅ /D ₂₅) (mm):	4.202	3.040	3.551	5.238
	(D ₇₅ -D ₂₅) (mm):	284.8	176.8	233.7	370.1
	D ₁₀ (phi):	0.300	0.909	0.564	-1.037
	D ₅₀ (phi):	2.980	3.068	2.822	3.046
	D ₉₀ (phi):	3.790	3.805	3.773	3.800
	(D ₉₀ /D ₁₀) (phi):	12.63	4.187	6.684	-3.663
	(D ₉₀ -D ₁₀) (phi):	3.490	2.896	3.208	4.837
	(D ₇₅ /D ₂₅) (phi):	2.459	1.834	2.128	3.117
	(D ₇₅ -D ₂₅) (phi):	2.071	1.604	1.828	2.389

		B54	B55	B56	B57
FOLK AND	Media	238.1	407.6	336.6	308.5
WARD	Classazione	2.918	2.947	2.949	2.875
(mm)	Skemness	0.436	-0.041	0.048	-0.017
	Kurtosis	0.869	0.464	0.760	0.732
FOLK AND	Media	2.070	1.295	1.571	1.697
WARD	Classazione	1.545	1.559	1.560	1.524
(phi)	Skemness	-0.456	0.041	-0.048	0.017
	Kurtosis	0.869	0.464	0.760	0.732
FOLK AND	Media	Sabbia fine	Sabbia media	Sabbia media	Sabbia media
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Scarsamente classato
Descrizione	Skemness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Simetrica	Simetrica	Simetrica
	Kurtosis	Platicurtica	Molto platicurtica	Platicurtica	Platicurtica
	Moda 1 (mm):	94.00	375.0	94.00	94.00
	Moda 2 (mm):		94.00	750.0	375.0
	Moda 1 (phi):	3.494	1.500	3.494	3.494
	Moda 2 (phi):		3.494	0.500	1.500
	D ₁₀ (mm):	74.94	90.23	86.24	81.27
	D ₅₀ (mm):	165.6	375.6	330.3	336.7
	D ₉₀ (mm):	2185.8	3785.3	1475.2	1283.0
	(D ₉₀ / D ₁₀) (mm):	29.17	41.95	17.11	15.79
	(D ₉₀ - D ₁₀) (mm):	2110.9	3695.1	1389.0	1201.8
	(D ₇₅ / D ₂₅) (mm):	4.070	11.19	5.717	5.889
	(D ₇₅ - D ₂₅) (mm):	298.5	1586.2	656.1	582.0
	D ₁₀ (phi):	-1.128	-1.920	-0.561	-0.360
	D ₅₀ (phi):	2.612	1.413	1.598	1.614
	D ₉₀ (phi):	3.738	3.470	3.555	3.621
	(D ₉₀ / D ₁₀) (phi):	-3.313	-1.807	-6.303	-10.071
	(D ₉₀ - D ₁₀) (phi):	4.866	5.391	4.096	3.981
	(D ₇₅ / D ₂₅) (phi):	2.514	-3.351	8.607	5.993
	(D ₇₅ - D ₂₅) (phi):	2.025	3.484	2.515	2.558

		B58	B59	B60	B67
FOLK AND	Media	231.9	175.6	183.9	101.6
WARD	Classazione	2.672	2.312	2.758	1.765
(mm)	Skenness	0.171	0.412	0.617	0.474
	Kurtosis	0.766	0.731	0.829	2.470
FOLK AND	Media	2.109	2.509	2.443	3.299
WARD	Classazione	1.418	1.209	1.464	0.820
(phi)	Skenness	-0.171	-0.412	-0.617	-0.474
	Kurtosis	0.766	0.731	0.829	2.470
FOLK AND	Media	Sabbia fine	Sabbia fine	Sabbia fine	Sabbia molto fine
WARD	Classazione	Scarsamente classato	Scarsamente classato	Scarsamente classato	Modatamente classato
Descrizione	Skenness	Asimmetrica verso frazioni grandometriche grossolane	Fortemente asimmetrica verso frazioni grandometriche grossolane	Fortemente asimmetrica verso frazioni grandometriche grossolane	Fortemente asimmetrica verso frazioni grandometriche grossolane
	Kurtosis	Platicurtica	Platicurtica	Platicurtica	Moto leptocurtica
	Moda 1 (mm):	94.00	94.00	94.00	94.00
	Moda 2 (mm):	375.0	375.0	375.0	
	Moda 1 (phi):	3.494	3.494	3.494	3.494
	Moda 2 (phi):	1.500	1.500	1.500	
	D ₁₀ (mm):	74.93	72.72	71.55	68.47
	D ₅₀ (mm):	214.7	138.2	119.0	95.56
	D ₉₀ (mm):	914.9	655.6	1004.8	326.6
	(D ₉₀ / D ₁₀) (mm):	12.21	9.016	14.04	4.769
	(D ₉₀ - D ₁₀) (mm):	839.9	582.9	933.3	258.1
	(D ₇₅ / D ₂₅) (mm):	4.912	4.085	4.659	1.517
	(D ₇₅ - D ₂₅) (mm):	380.1	278.2	316.9	40.10
	D ₁₀ (phi):	0.128	0.609	-0.007	1.615
	D ₅₀ (phi):	2.220	2.855	3.071	3.387
	D ₉₀ (phi):	3.738	3.782	3.805	3.868
	(D ₉₀ / D ₁₀) (phi):	29.12	6.209	-547.324	2.396
	(D ₉₀ - D ₁₀) (phi):	3.610	3.173	3.812	2.254
	(D ₇₅ / D ₂₅) (phi):	3.152	2.409	2.695	1.195
	(D ₇₅ - D ₂₅) (phi):	2.296	2.030	2.220	0.601

		B68	B69
FOLK AND	Media	160.9	184.6
WARD	Classazione	2.498	2.815
(mm)	Skewness	0.618	0.633
	Kurtosis	1.072	0.857
FOLK AND	Media	2.635	2.438
WARD	Classazione	1.321	1.493
(phi)	Skewness	-0.618	-0.633
	Kurtosis	1.072	0.857
FOLK AND	Media	Sabbia fine	Sabbia fine
WARD	Classazione	Scarsamente classato	Scarsamente classato
Descrizione	Skewness	Fortemente asimmetrica verso frazioni granulometriche grossolane	Fortemente asimmetrica verso frazioni granulometriche grossolane
	Kurtosis	Mesocurtica	Platicurtica
	Moda 1 (mm):	94.00	94.00
	Moda 2 (mm):		
	Moda 1 (phi):	3.494	3.494
	Moda 2 (phi):		
	D₁₀ (mm):	70.64	71.35
	D₅₀ (mm):	111.7	117.4
	D₉₀ (mm):	778.3	1045.5
	(D₉₀ / D₁₀) (mm):	11.02	14.65
	(D₉₀ - D₁₀) (mm):	707.6	974.2
	(D₇₅ / D₂₅) (mm):	3.088	4.603
	(D₇₅ - D₂₅) (mm):	175.1	309.9
	D₁₀ (phi):	0.362	-0.064
	D₅₀ (phi):	3.163	3.091
	D₉₀ (phi):	3.823	3.809
	(D₉₀ / D₁₀) (phi):	10.57	-59.300
	(D₉₀ - D₁₀) (phi):	3.462	3.873
	(D₇₅ / D₂₅) (phi):	1.834	2.647
	(D₇₅ - D₂₅) (phi):	1.626	2.203

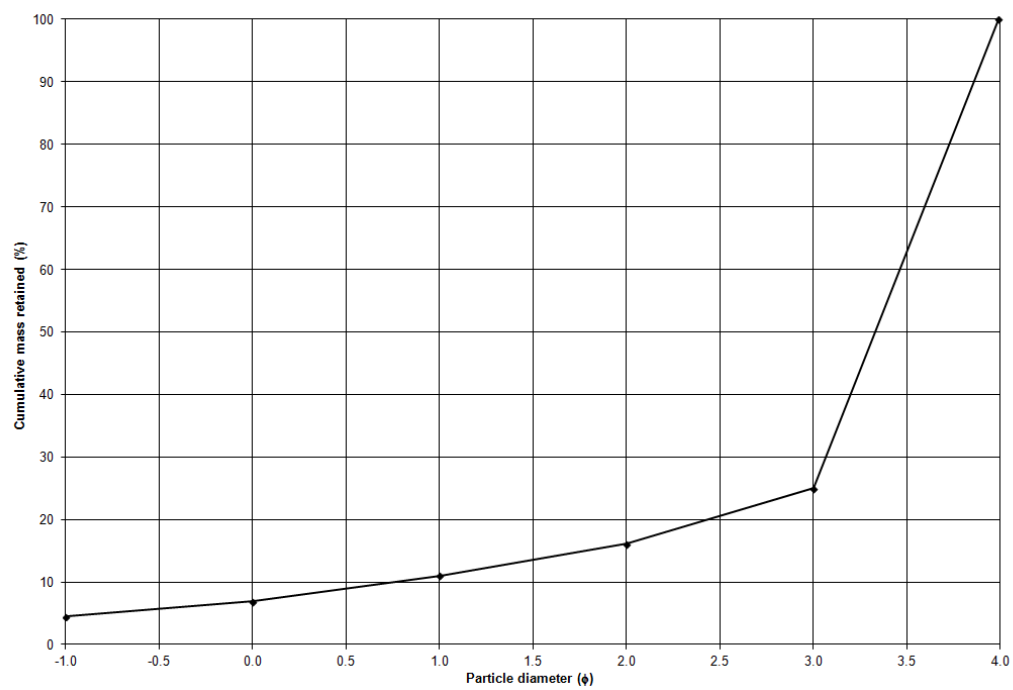
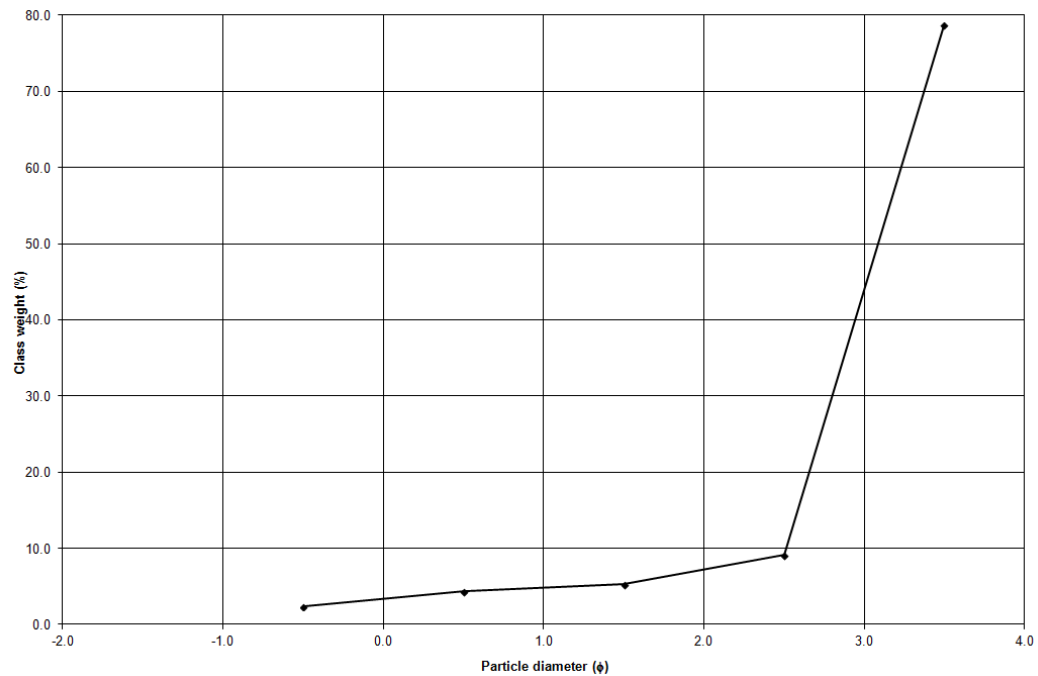


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Distribuzioni granulometriche dei campioni analizzati

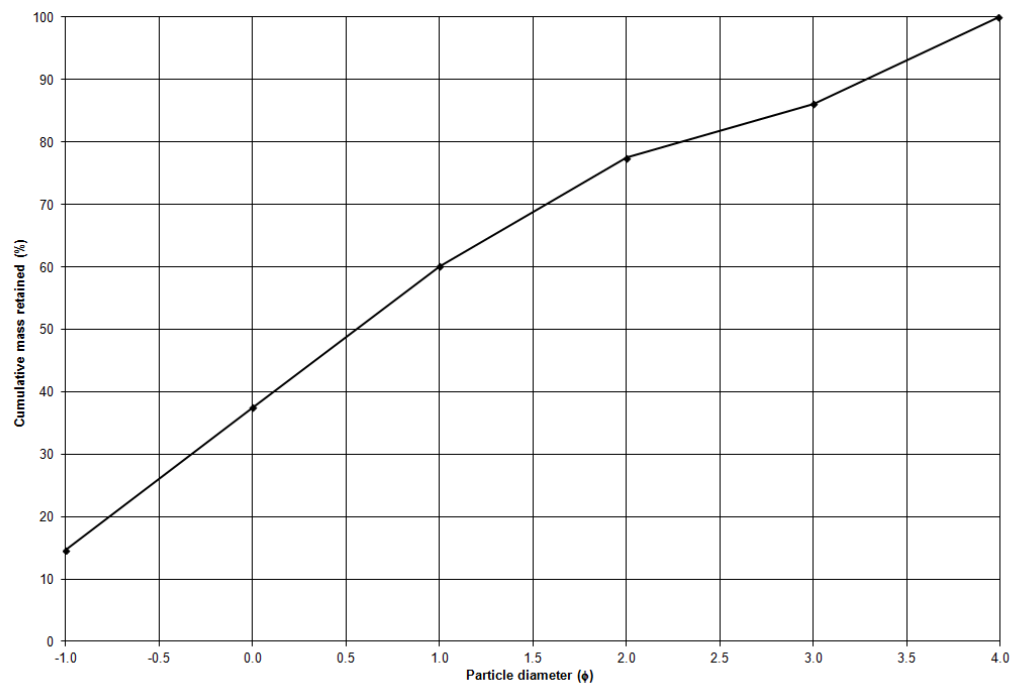
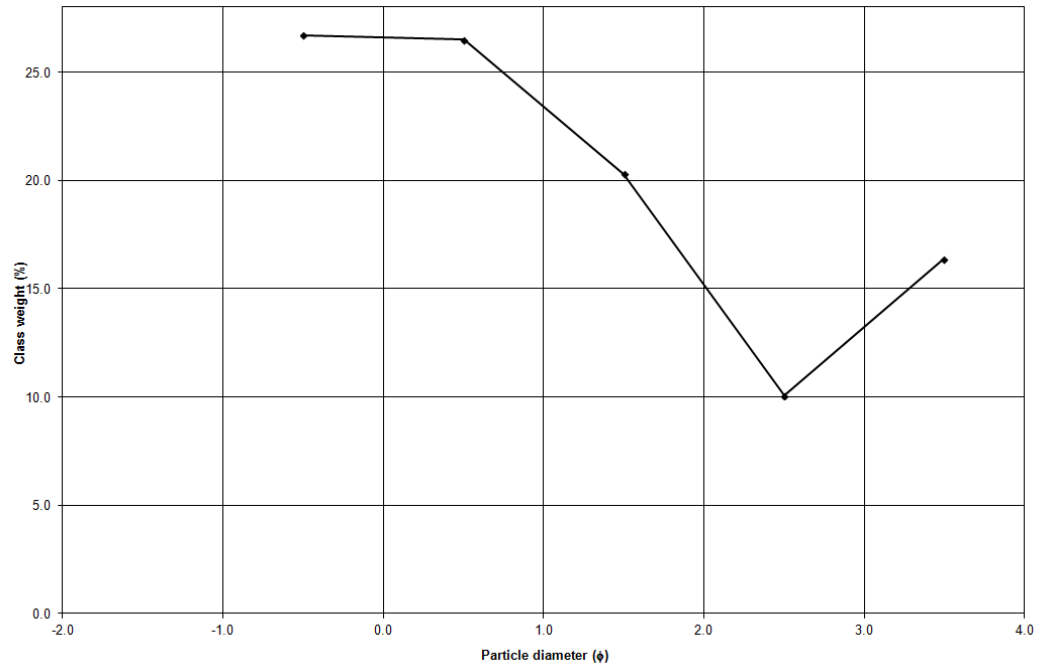


Stazione B01



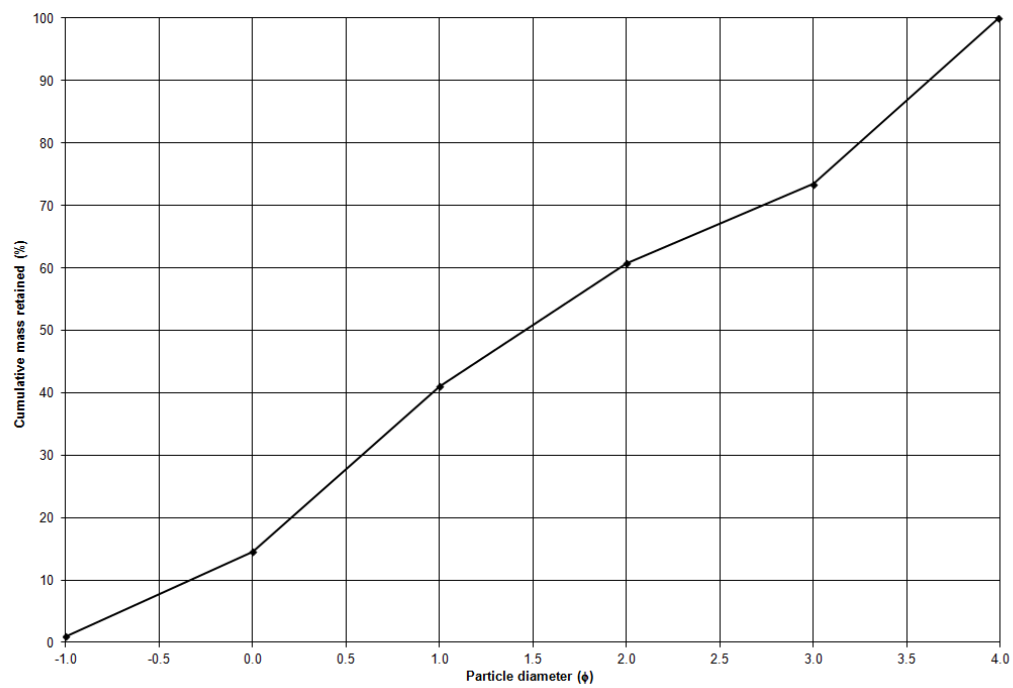
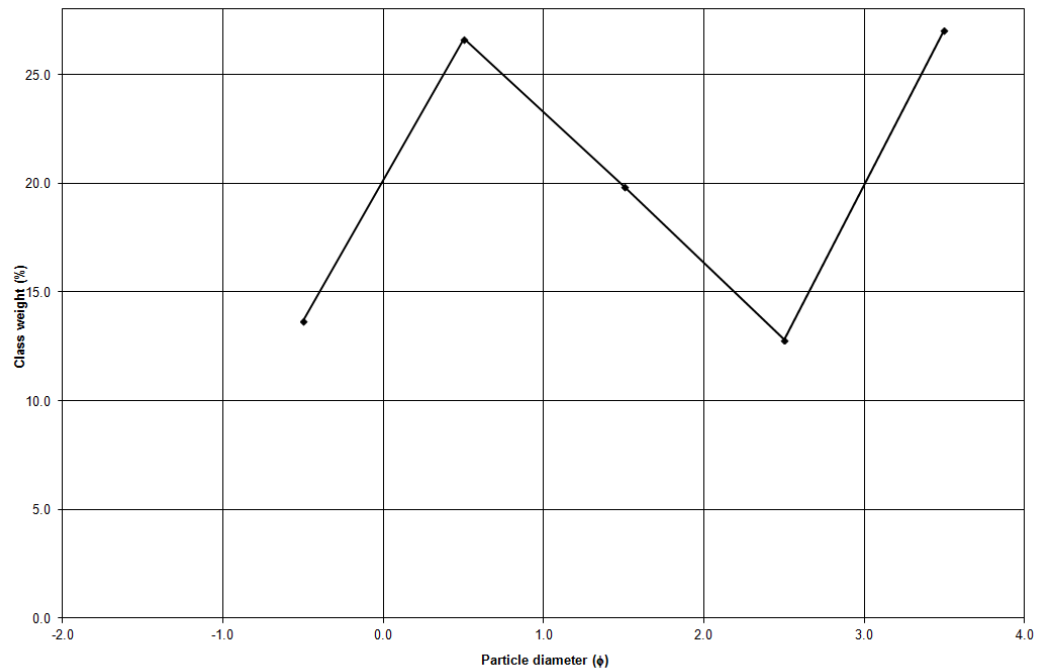


Stazione B02



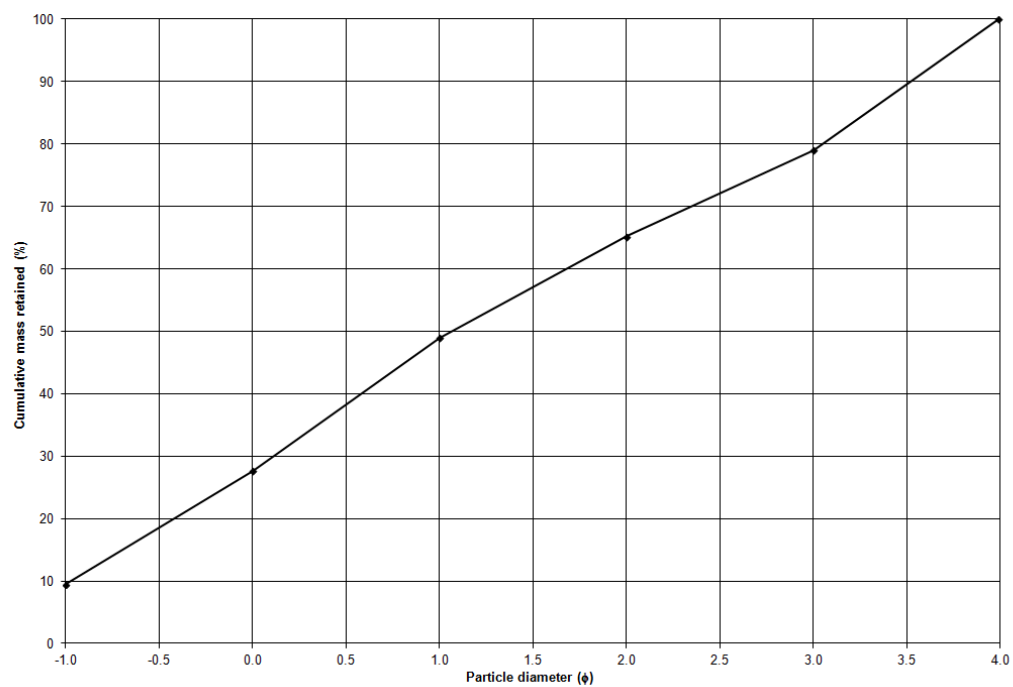
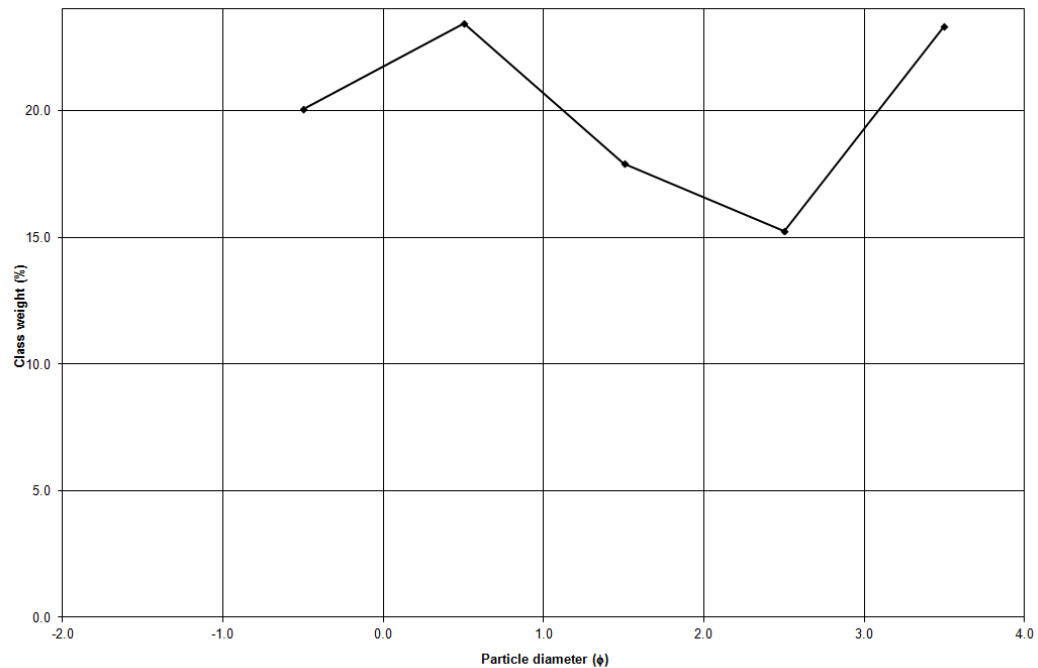


Stazione B03



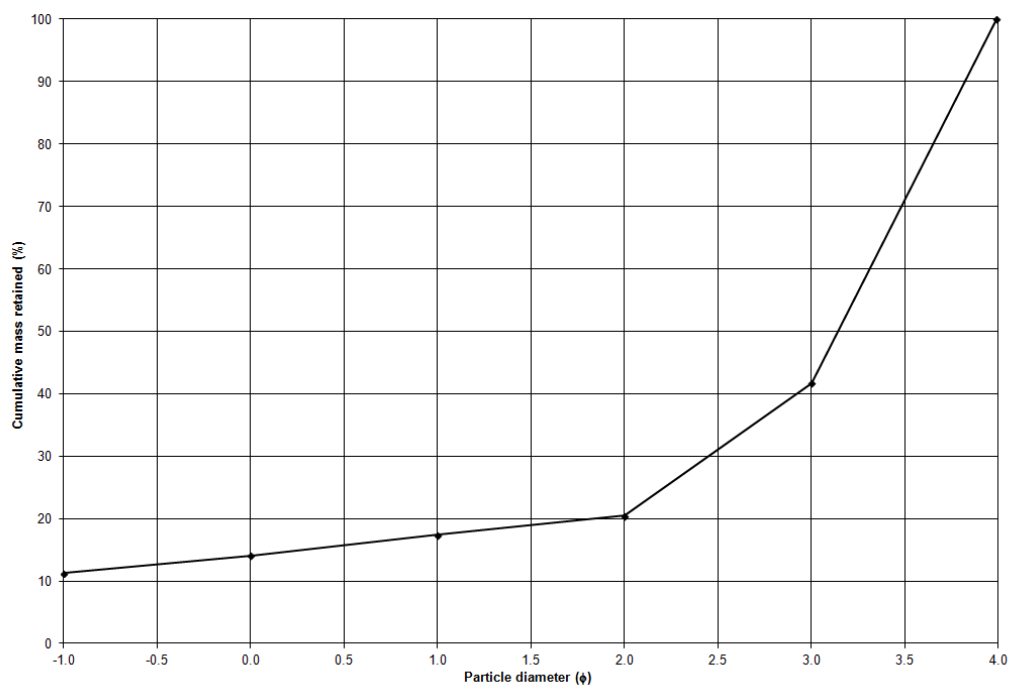
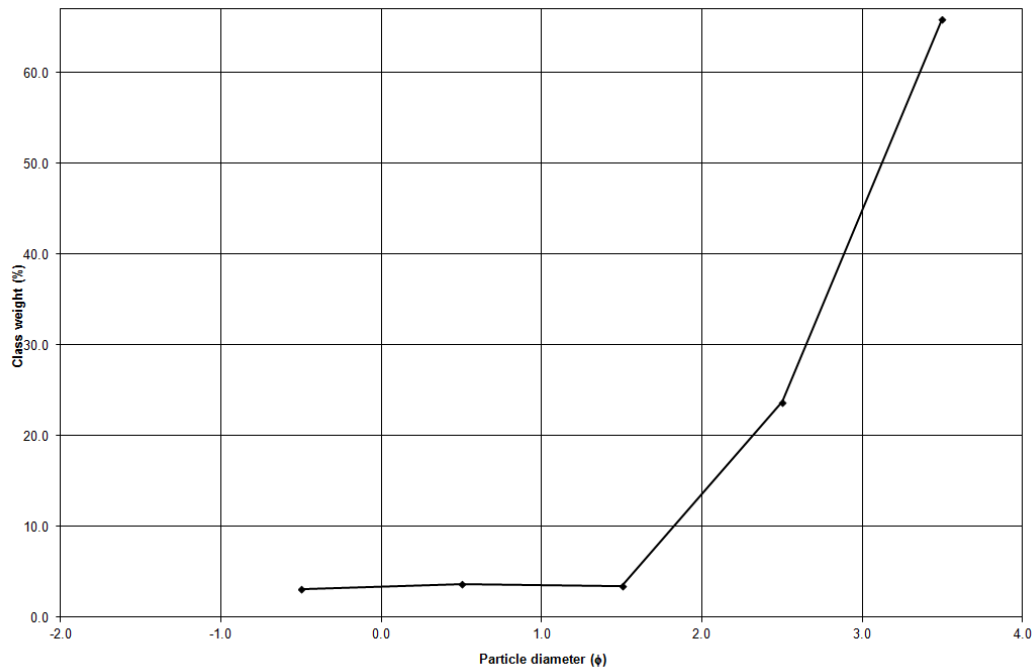


Stazione B04



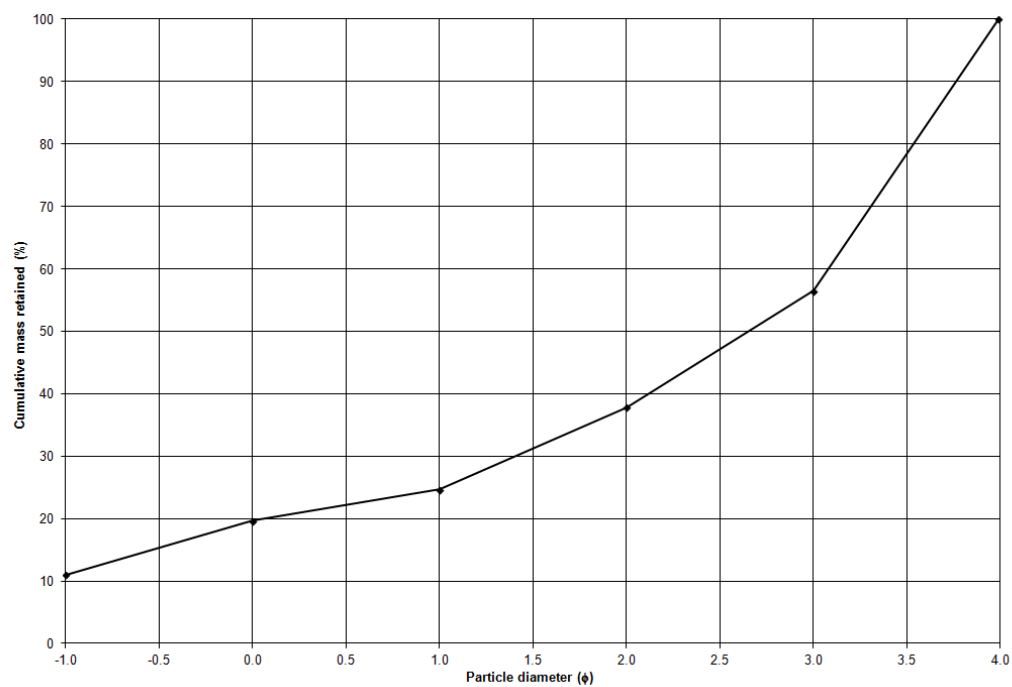
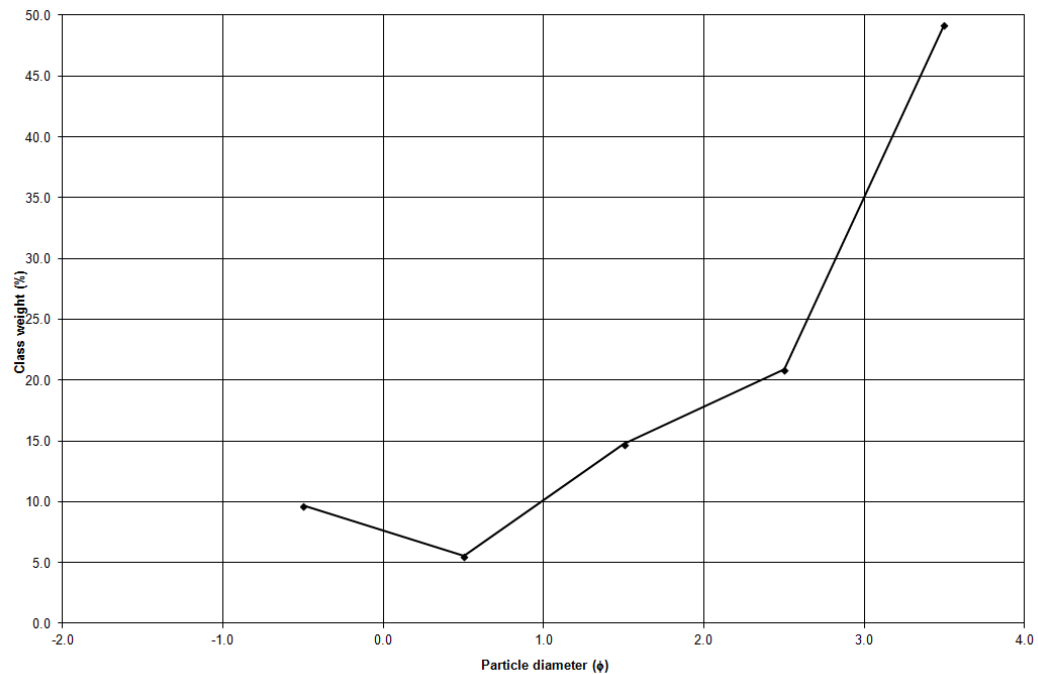


Stazione B10



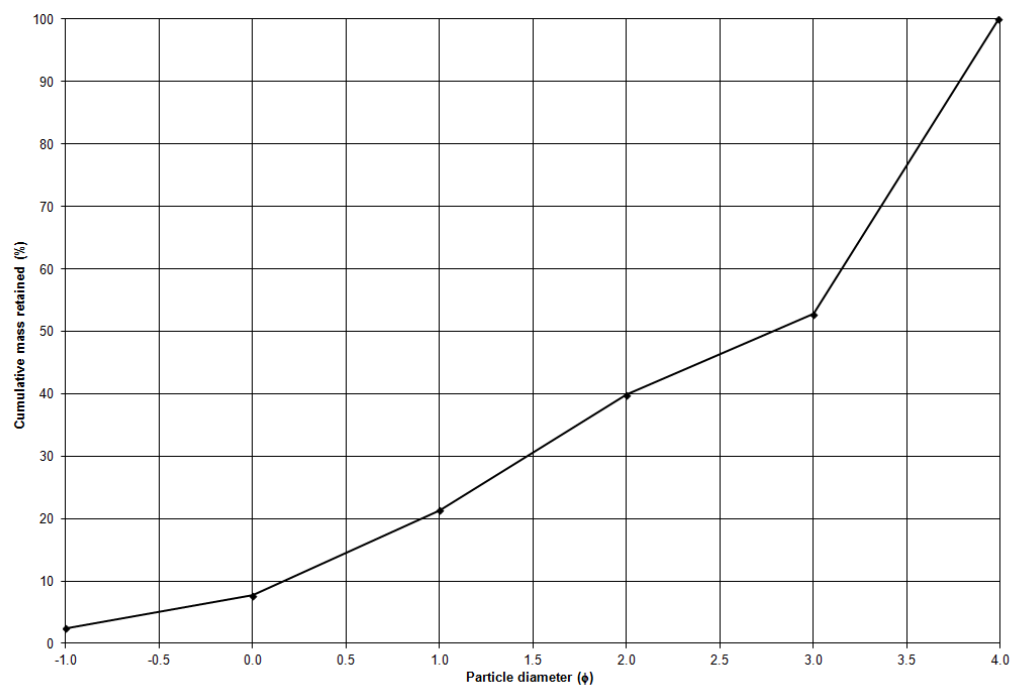
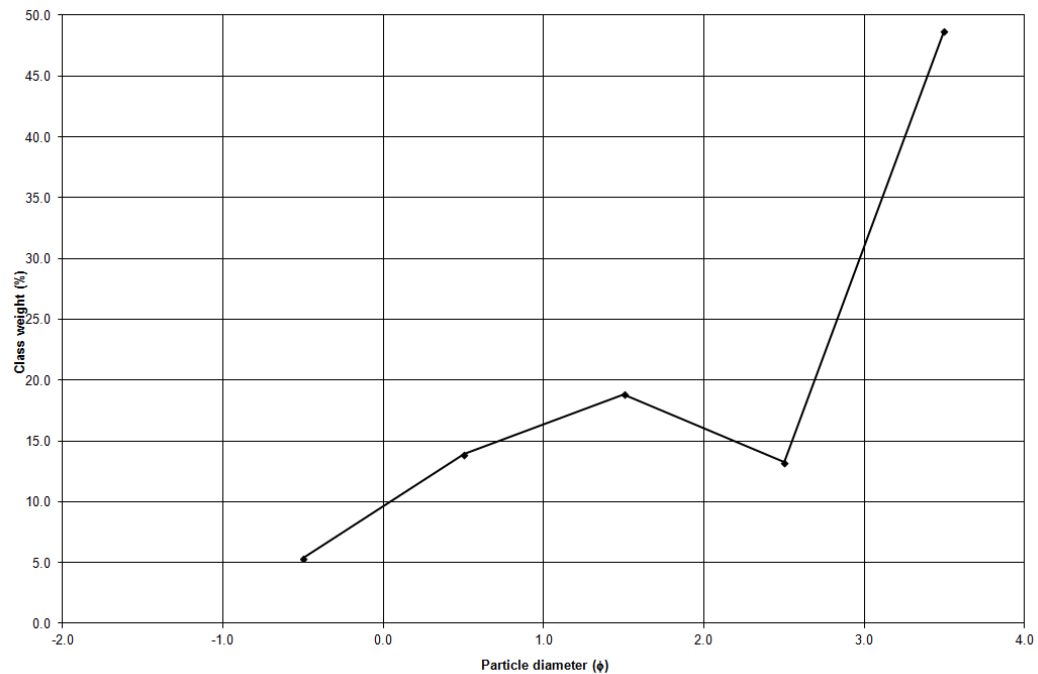


Stazione B11



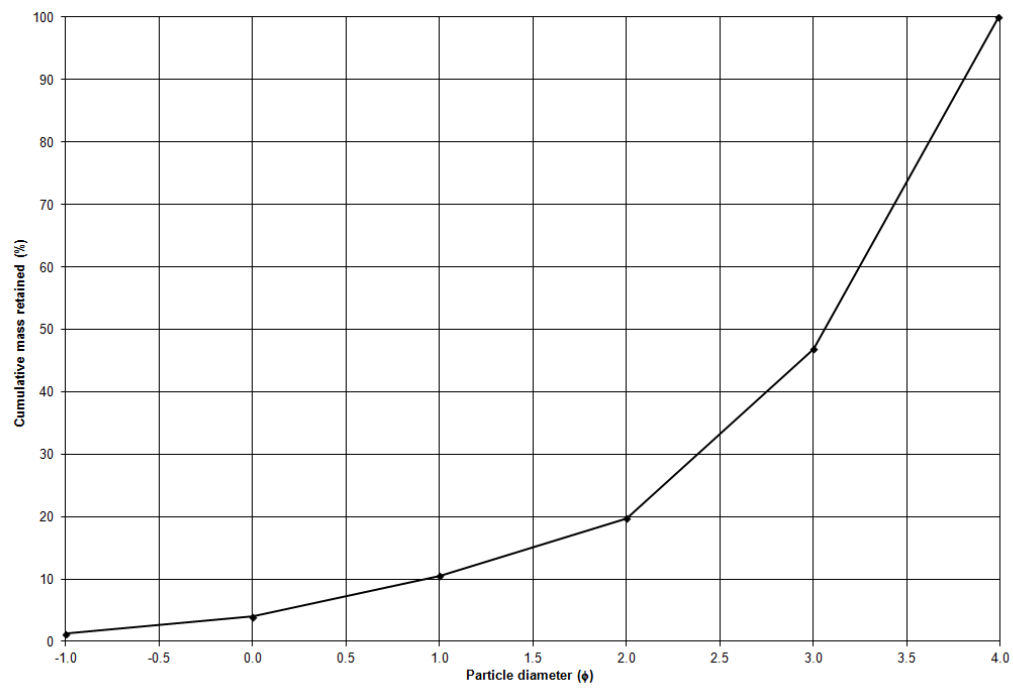
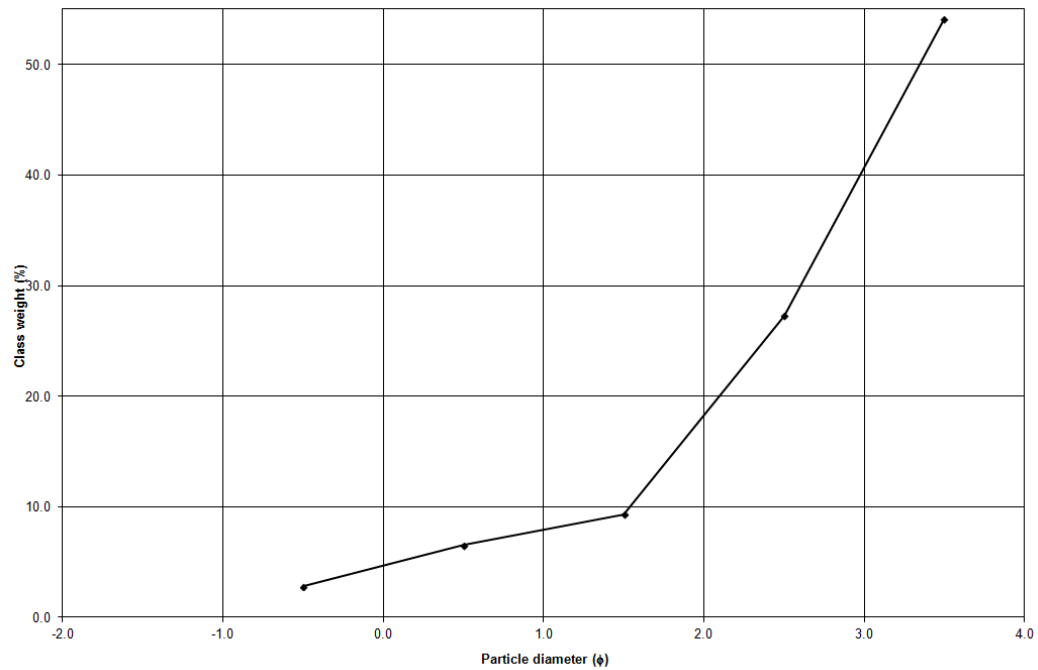


Stazione B18



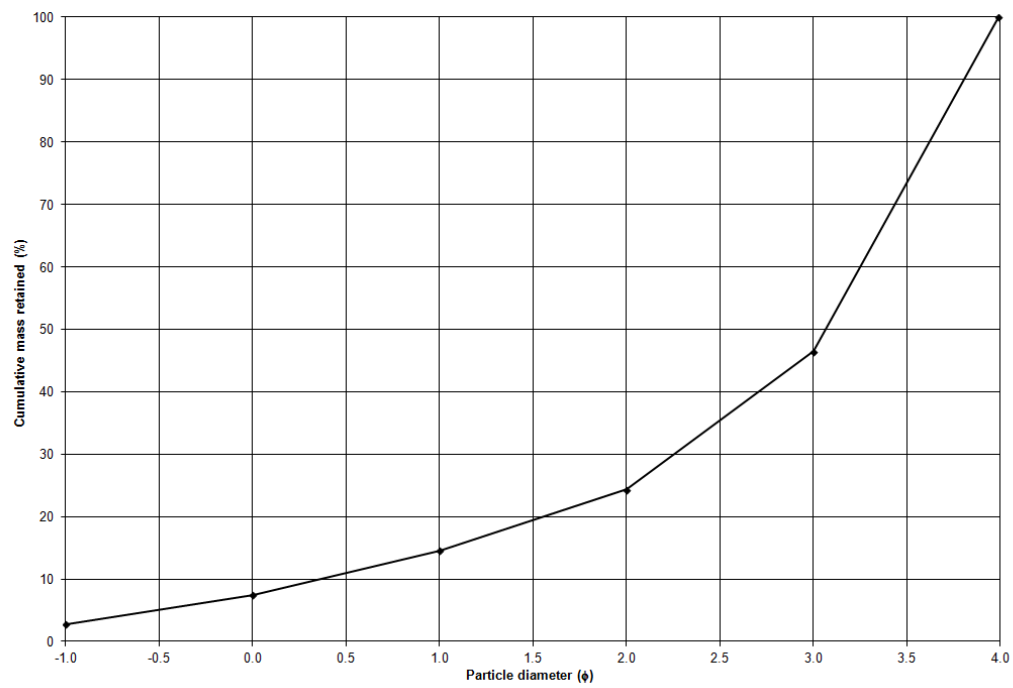
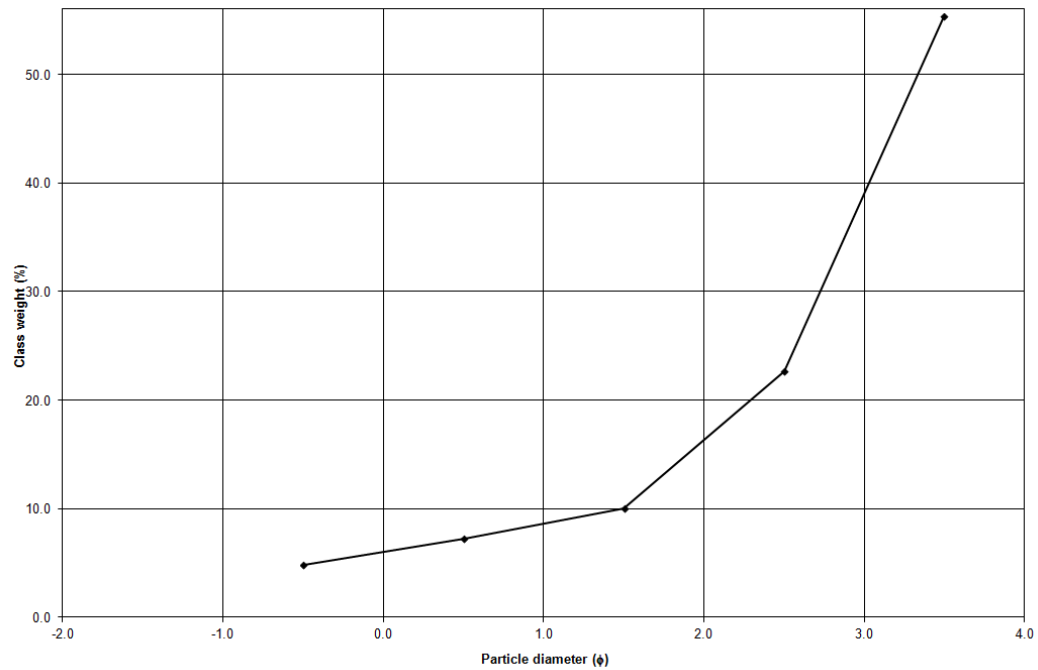


Stazione B19



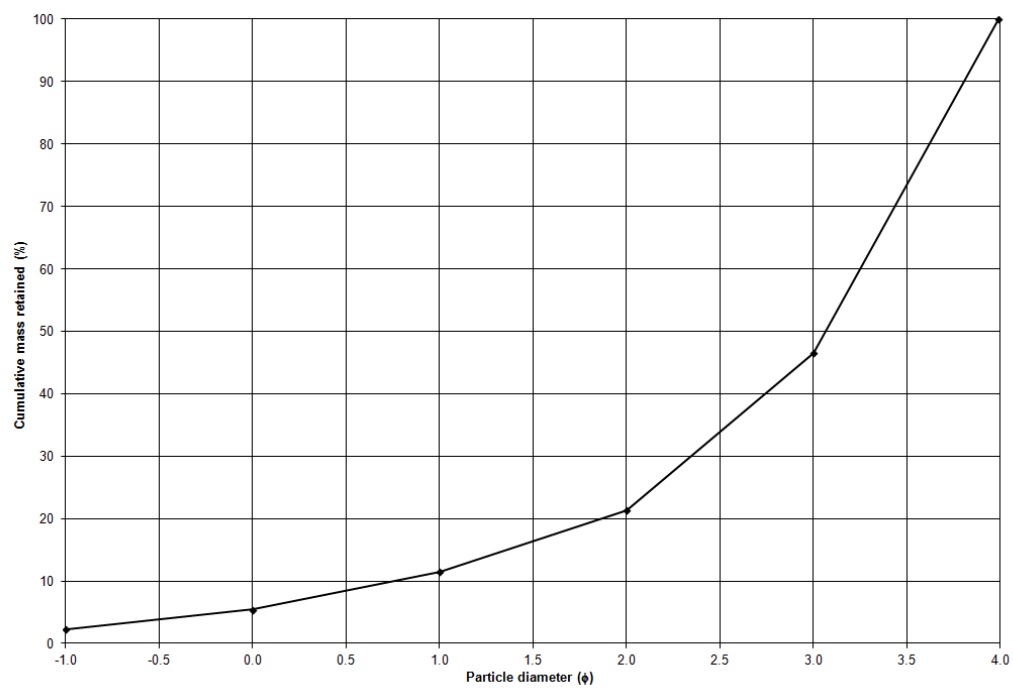
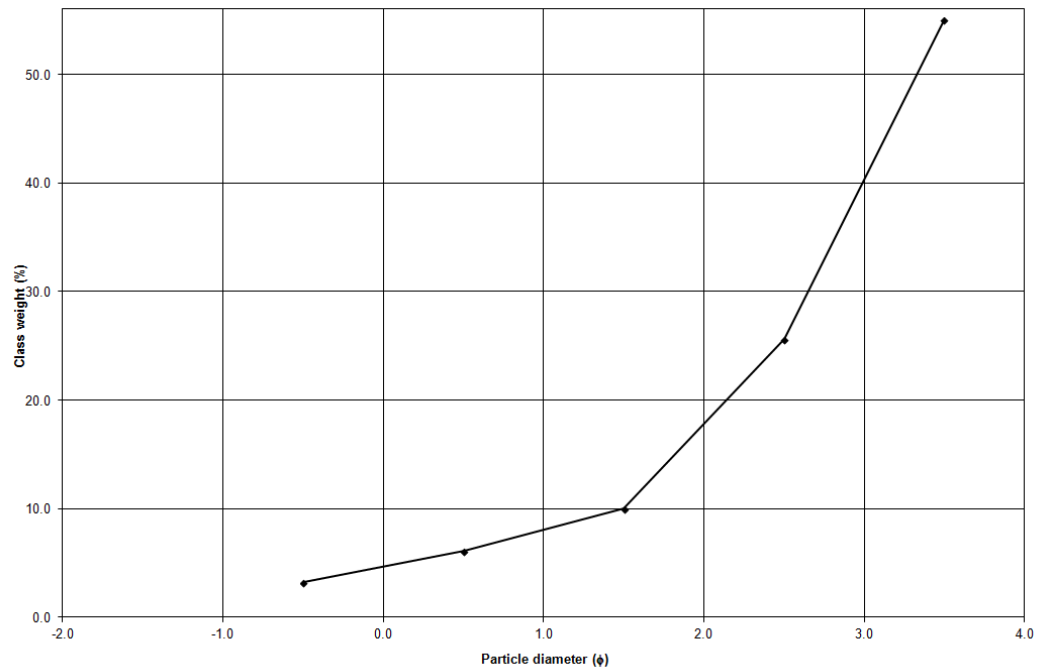


Stazione B20



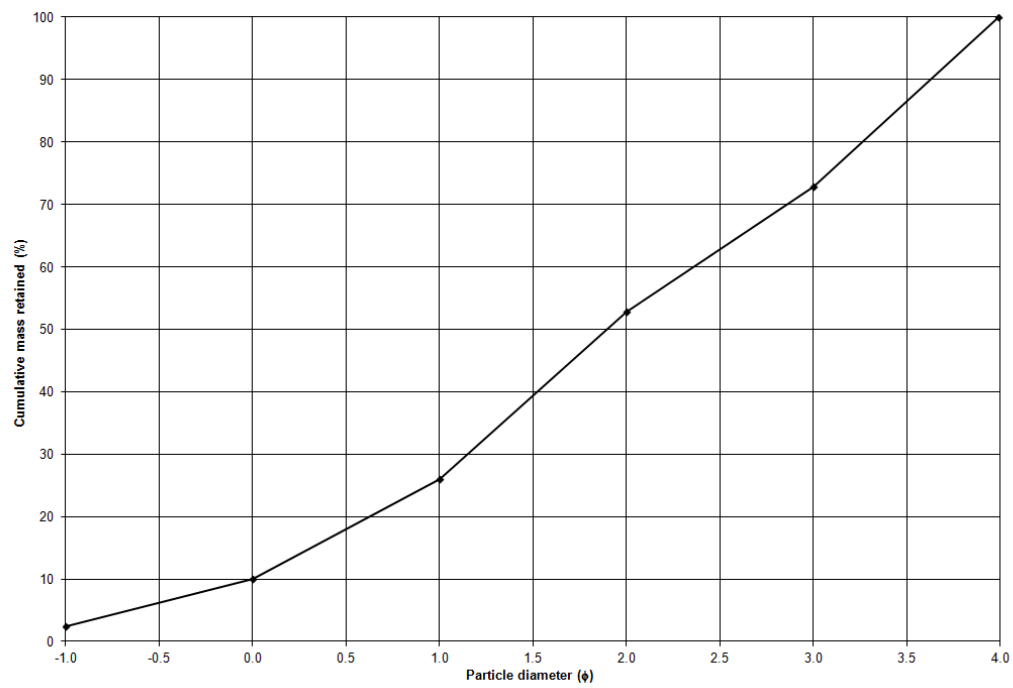
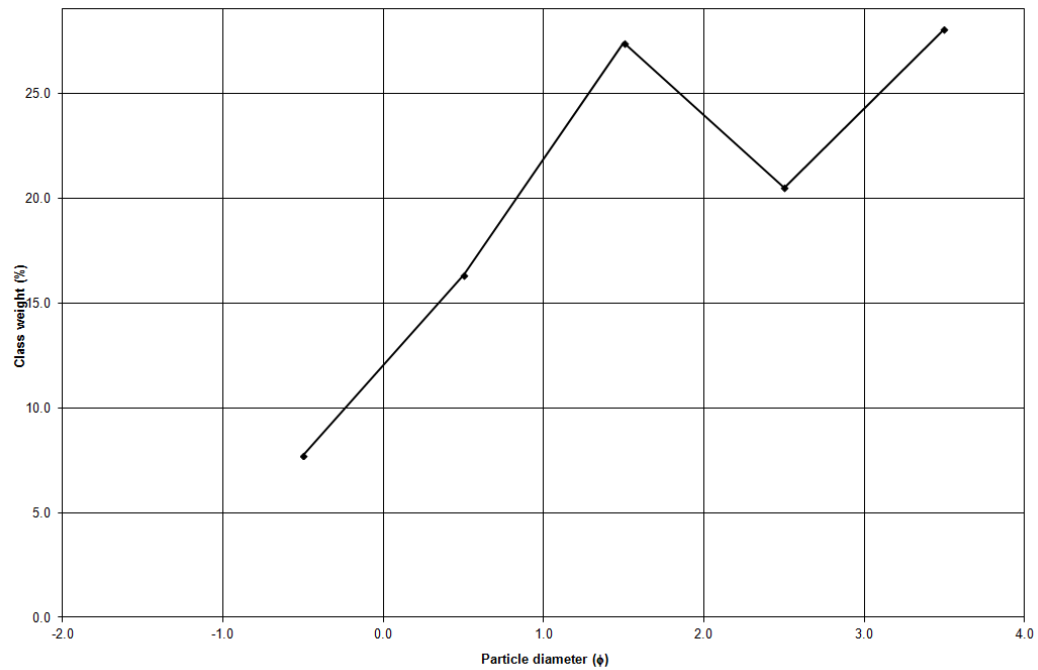


Stazione B21



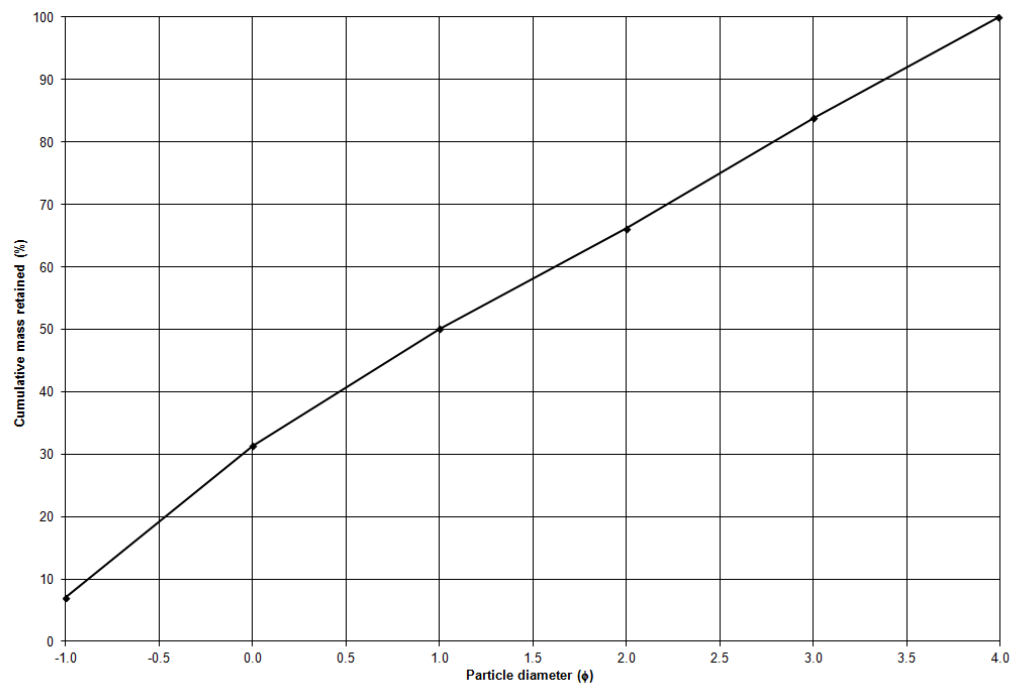
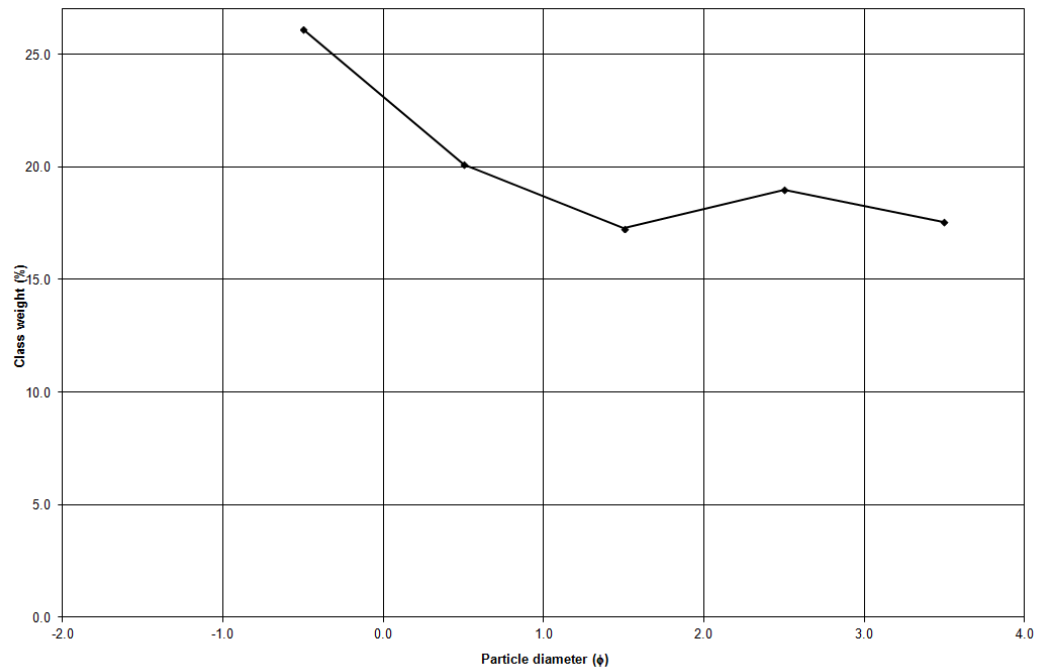


Stazione B22



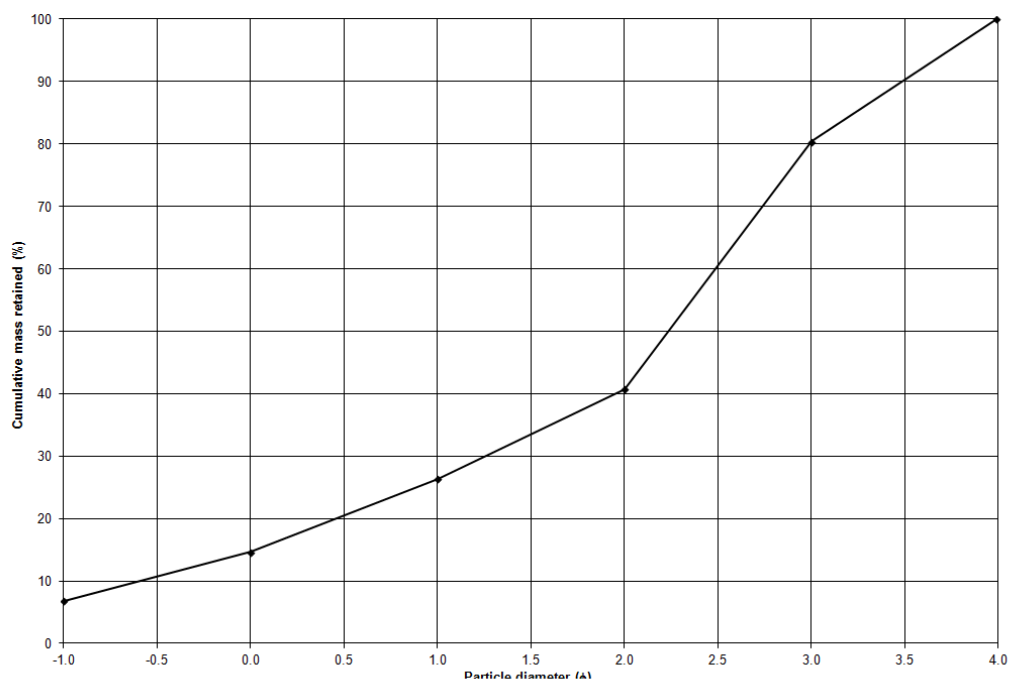
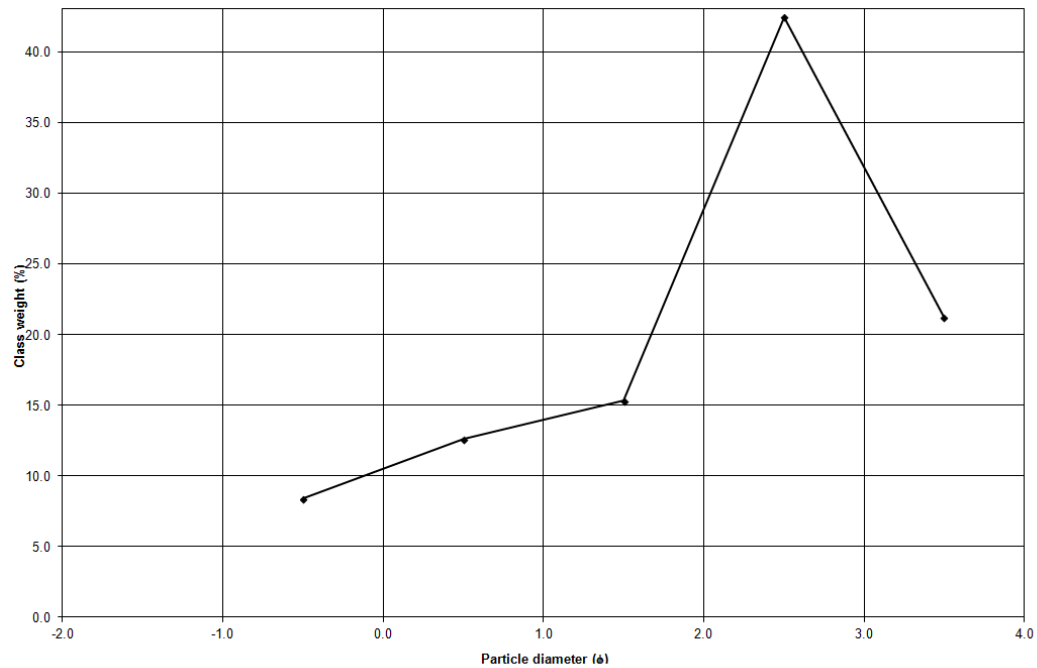


Stazione B23



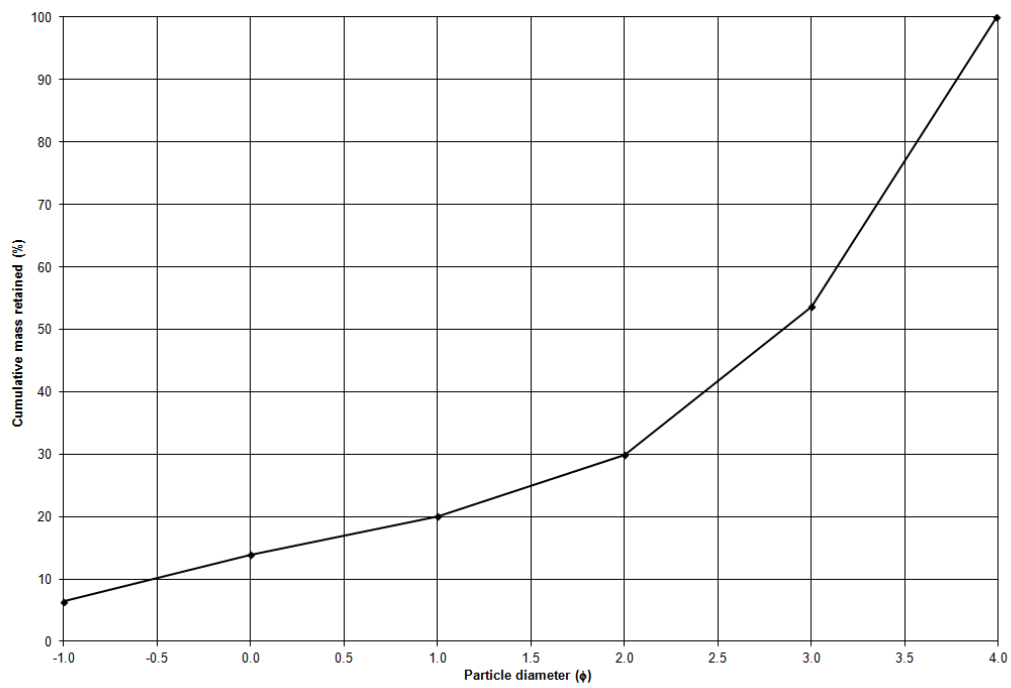
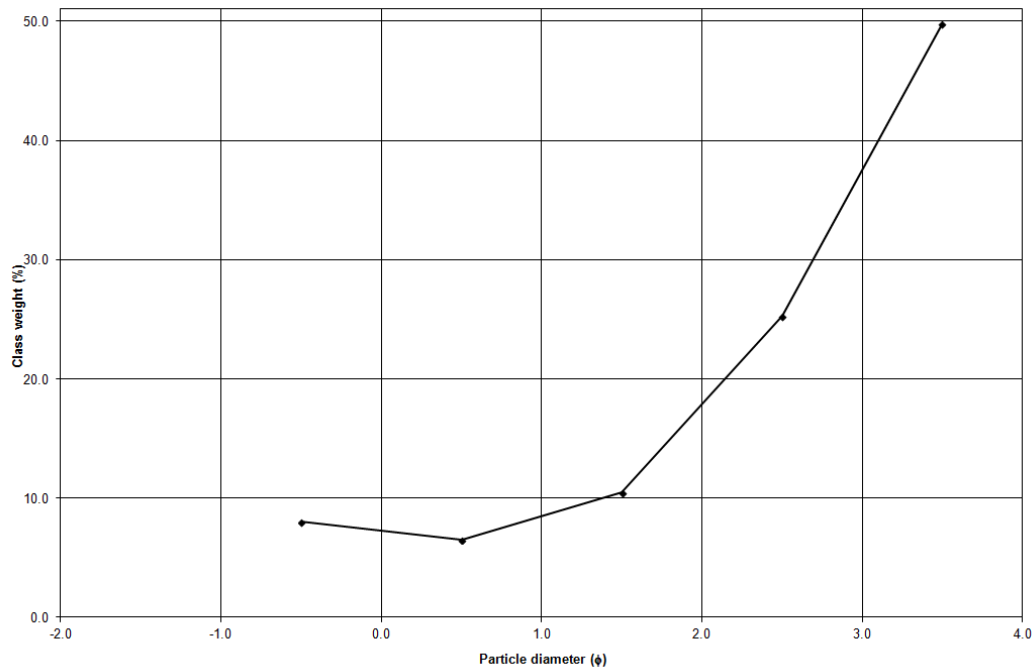


Stazione B31



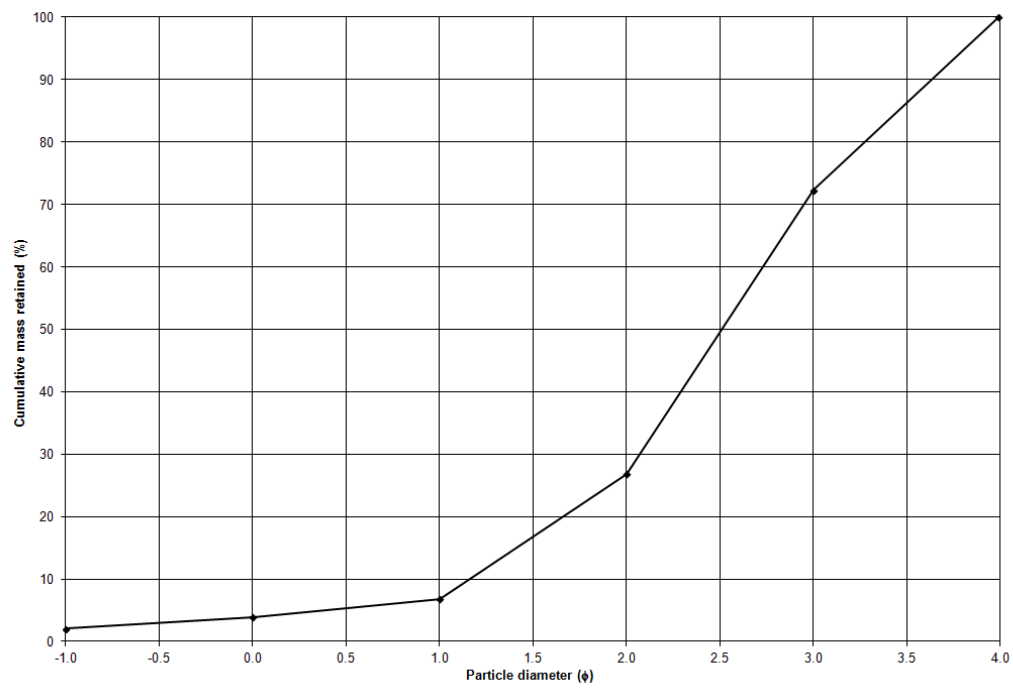
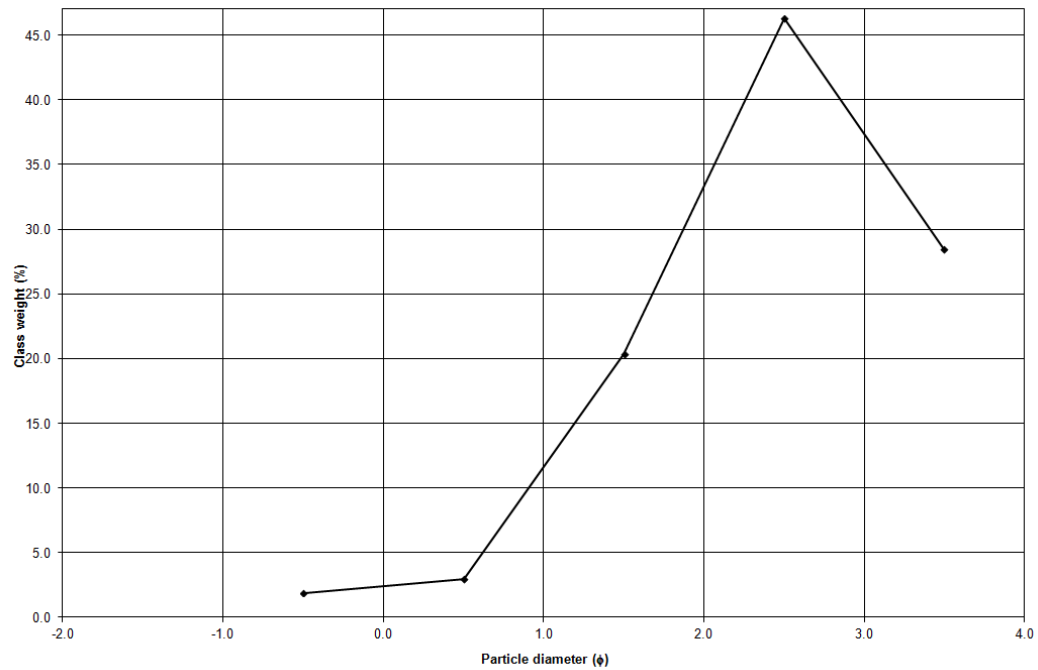


Stazione B32



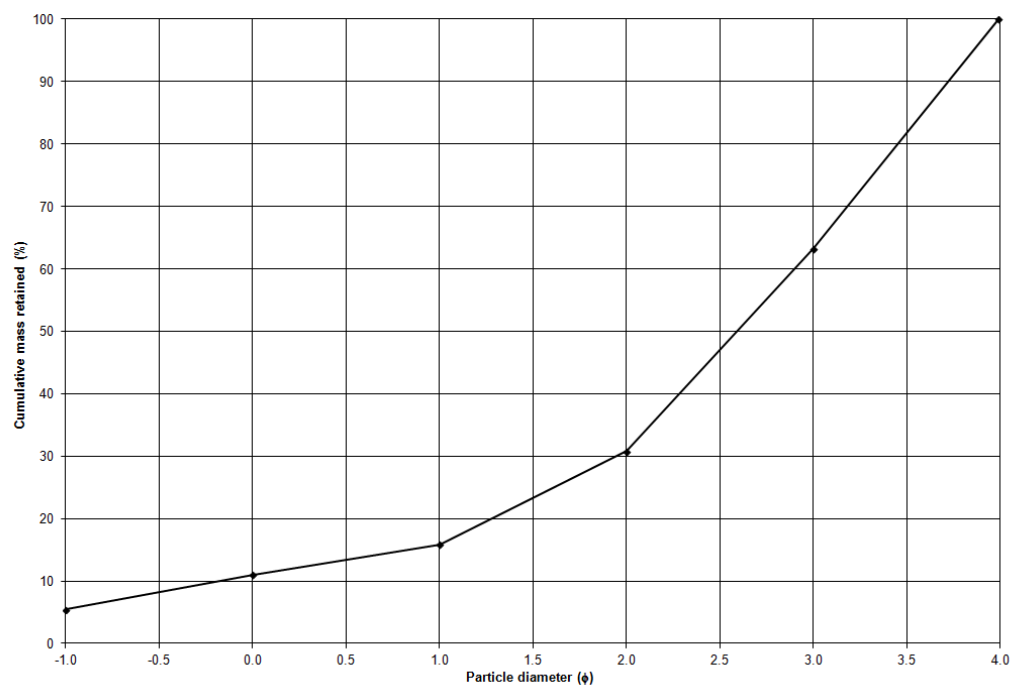
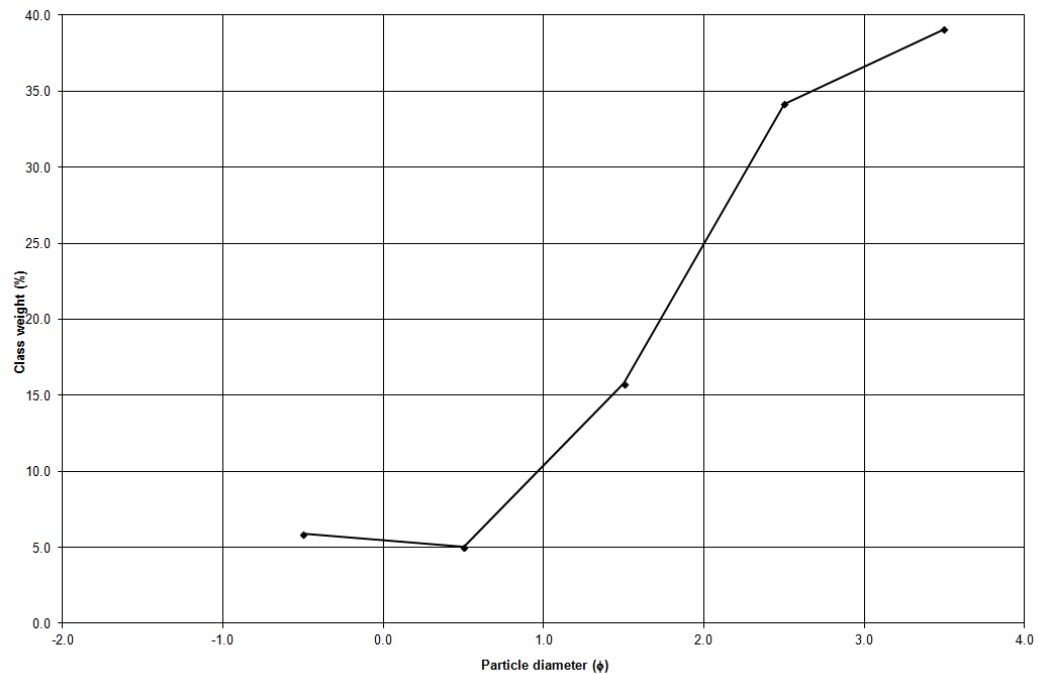


Stazione B36



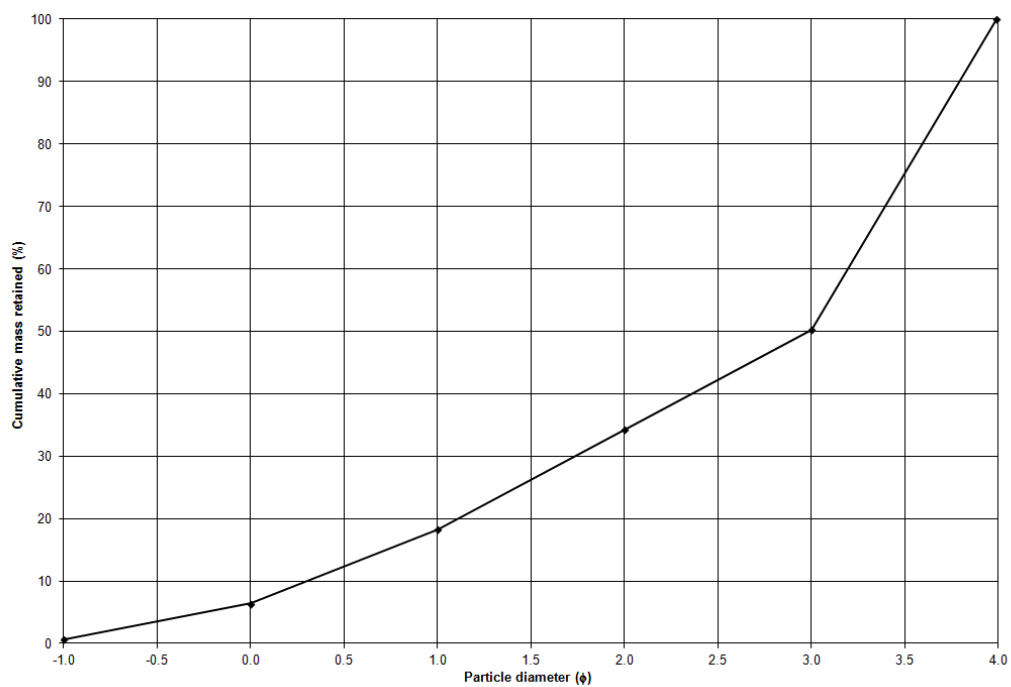
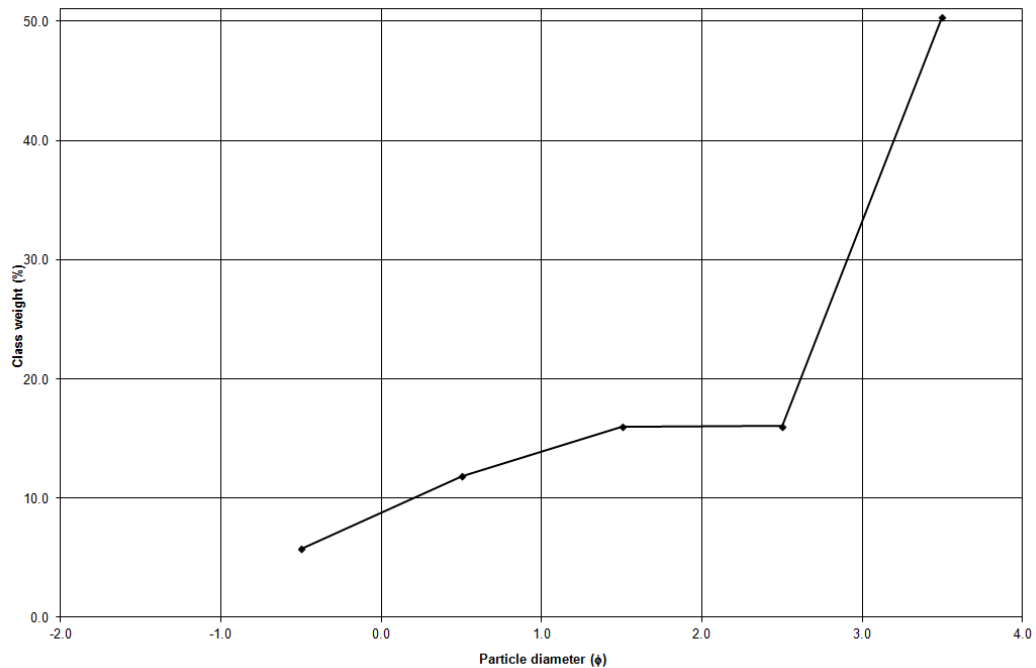


Stazione B37



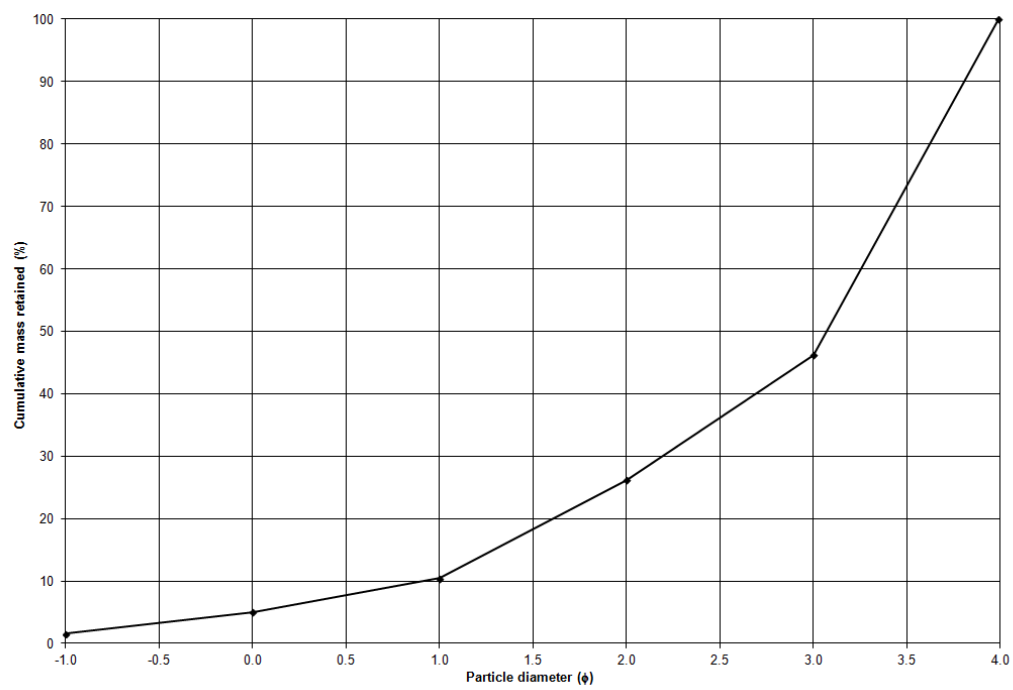
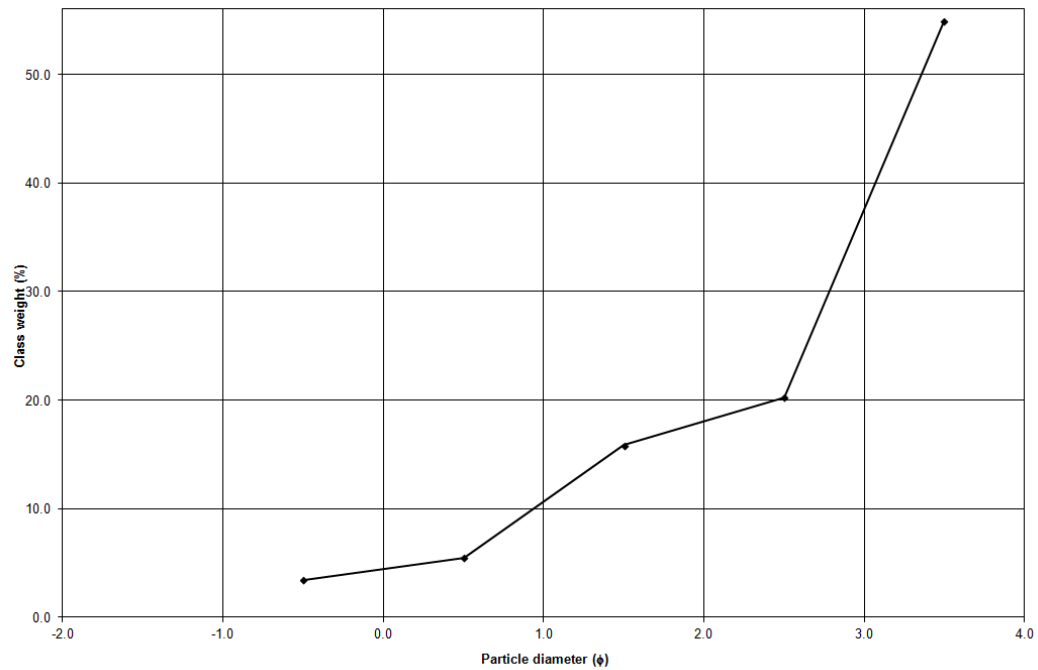


Stazione B38



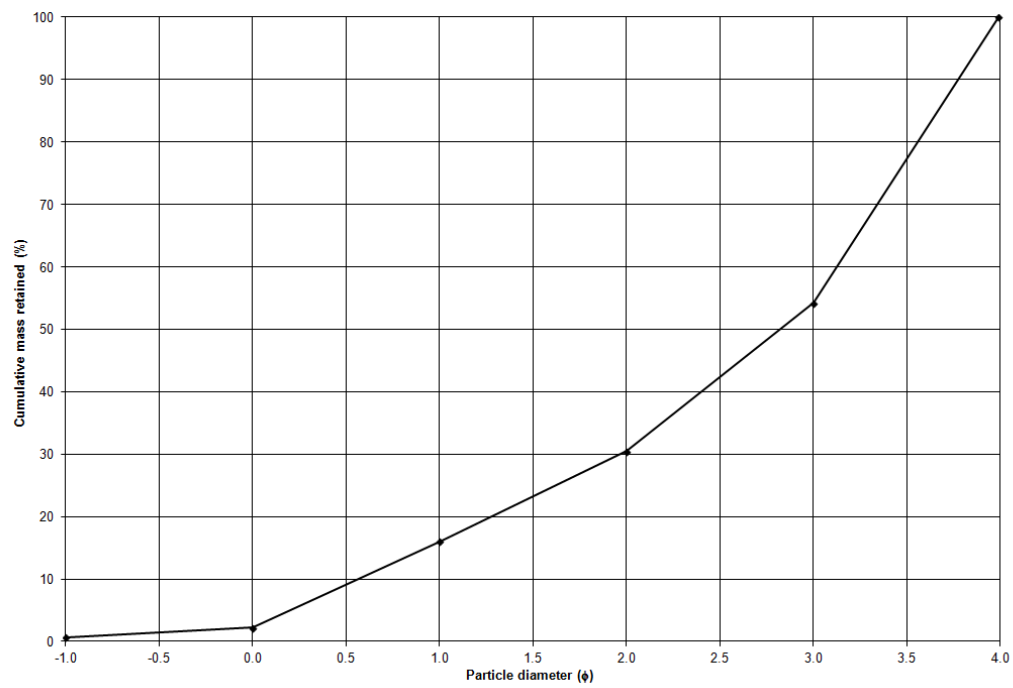
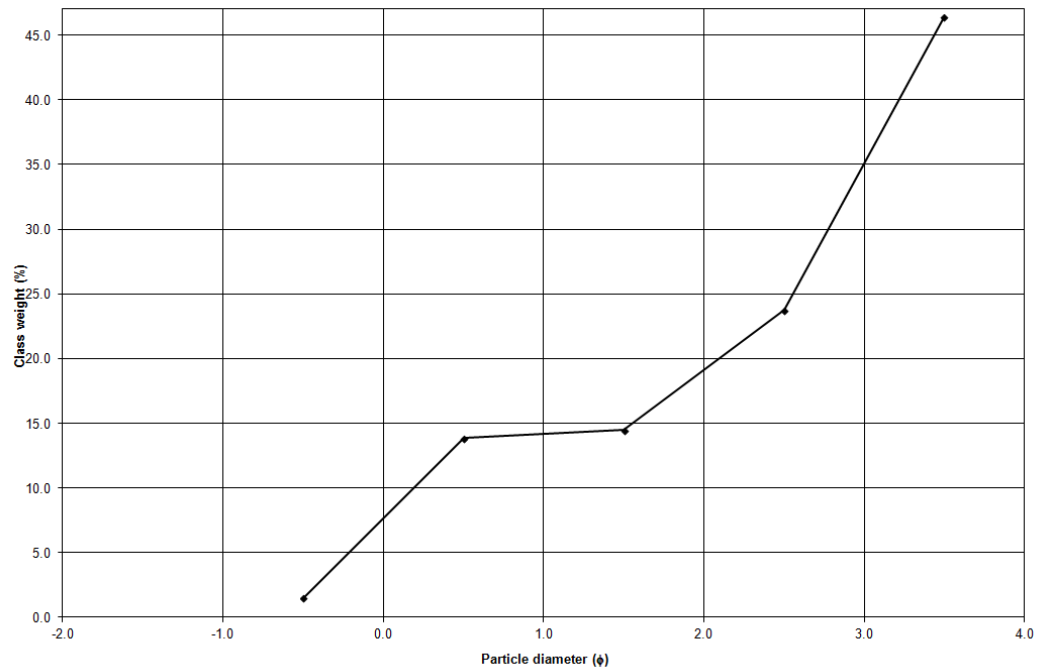


Stazione B48



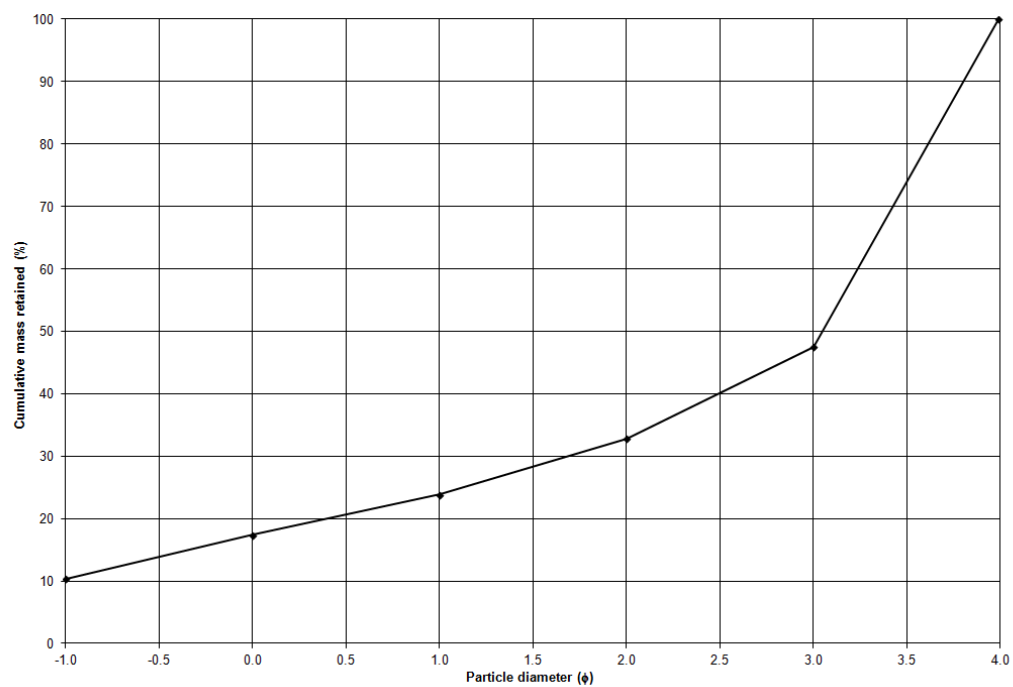
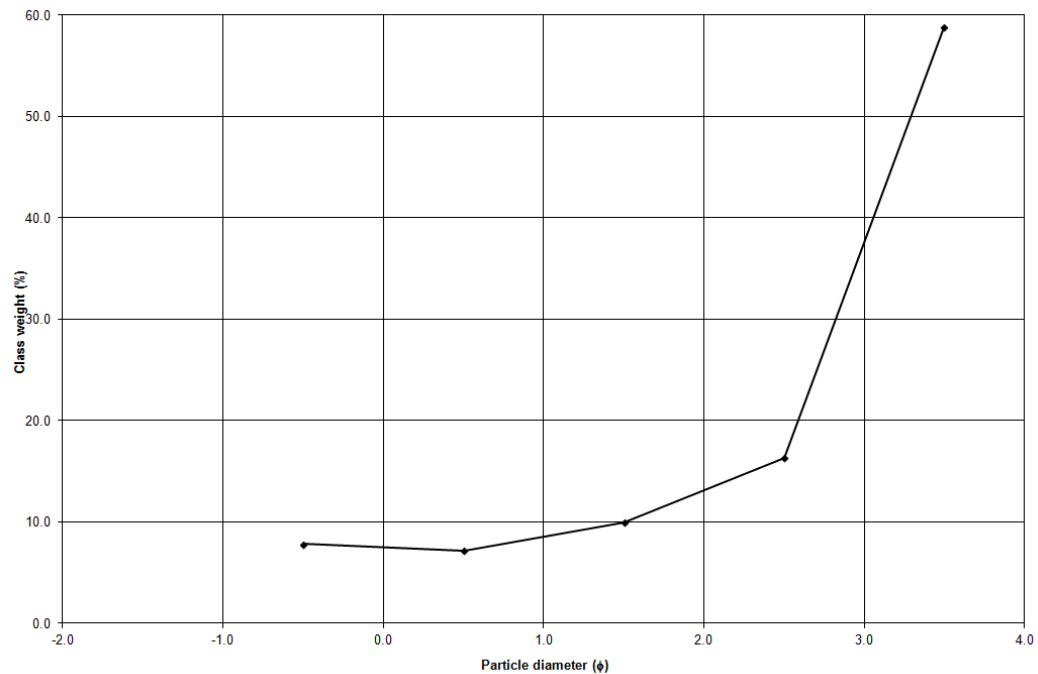


Stazione B49



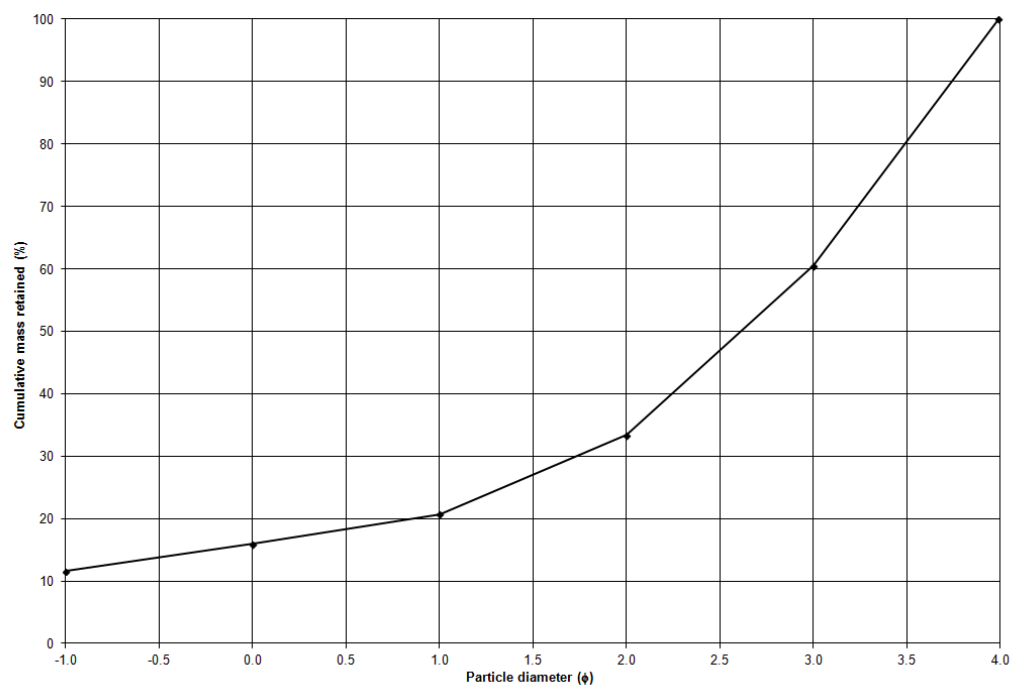
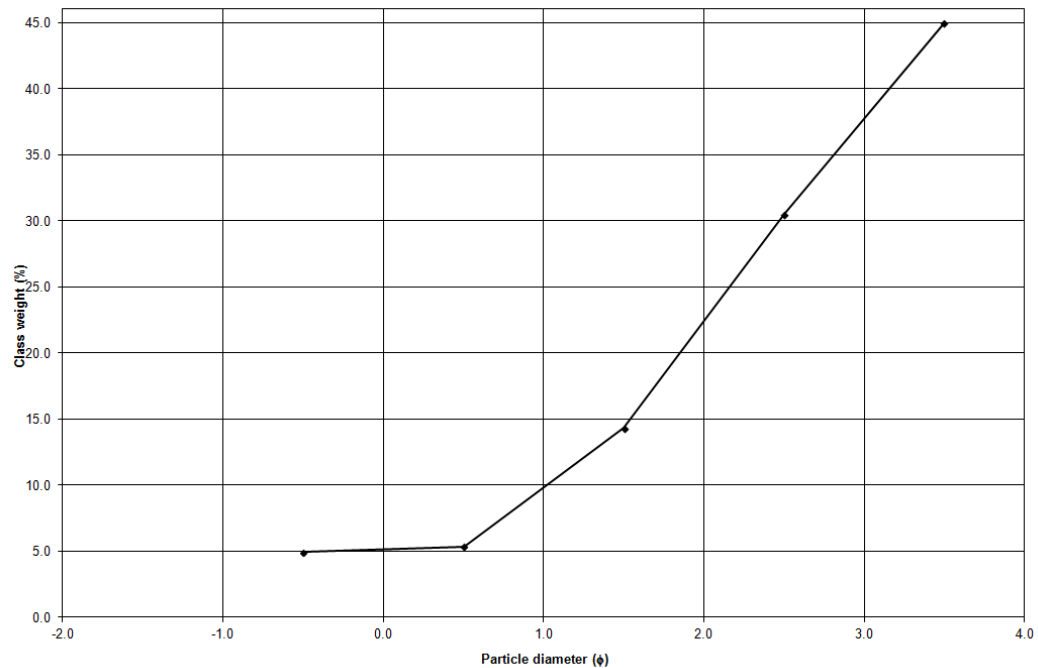


Stazione B50



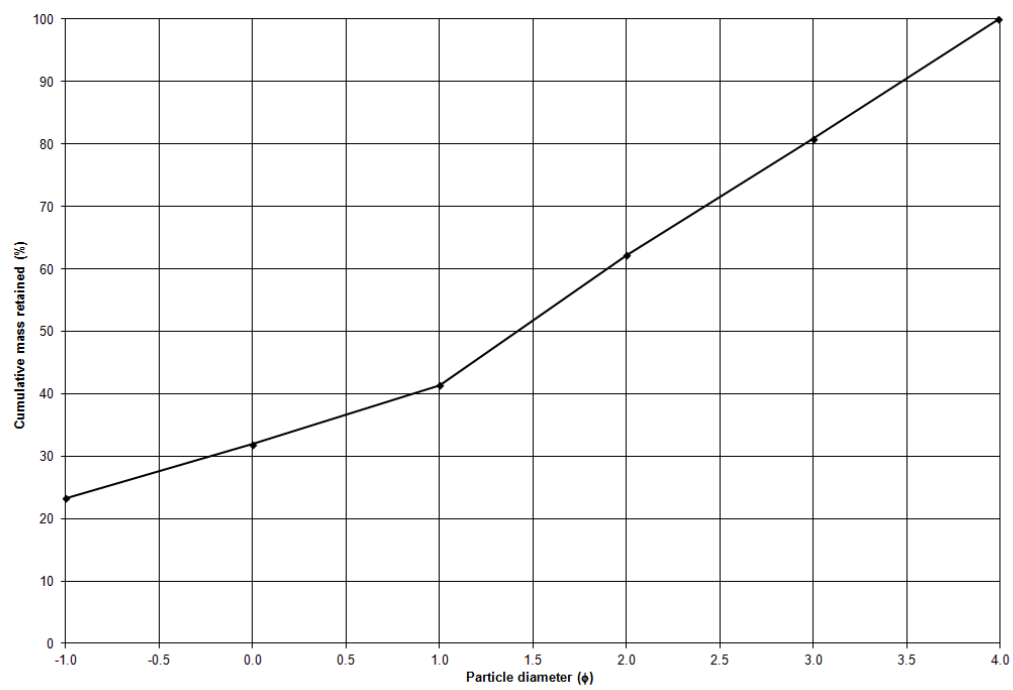
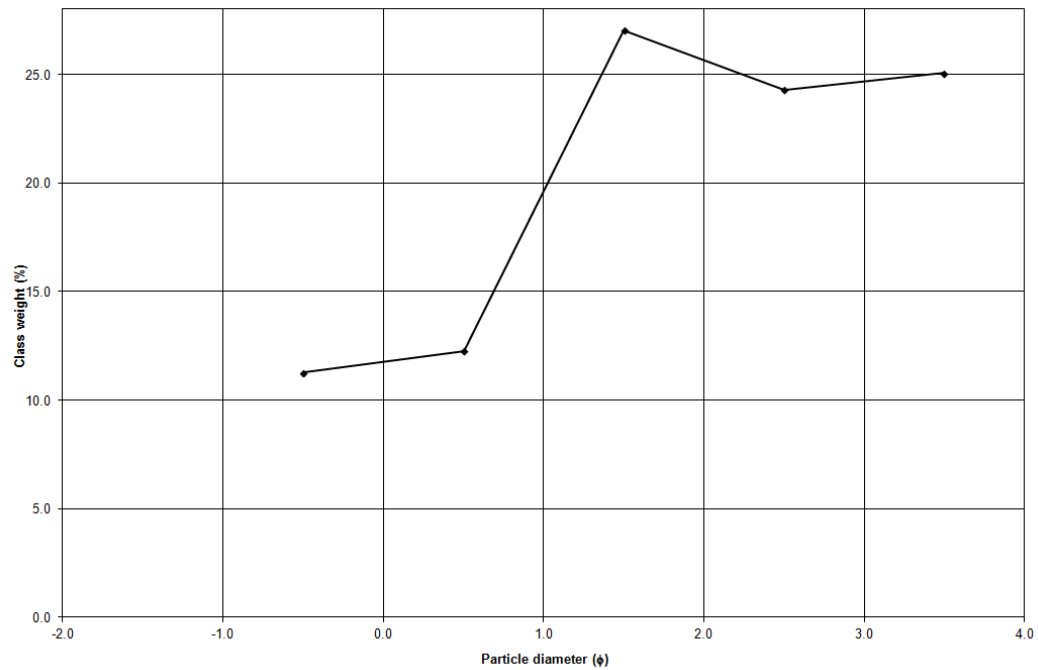


Stazione B54



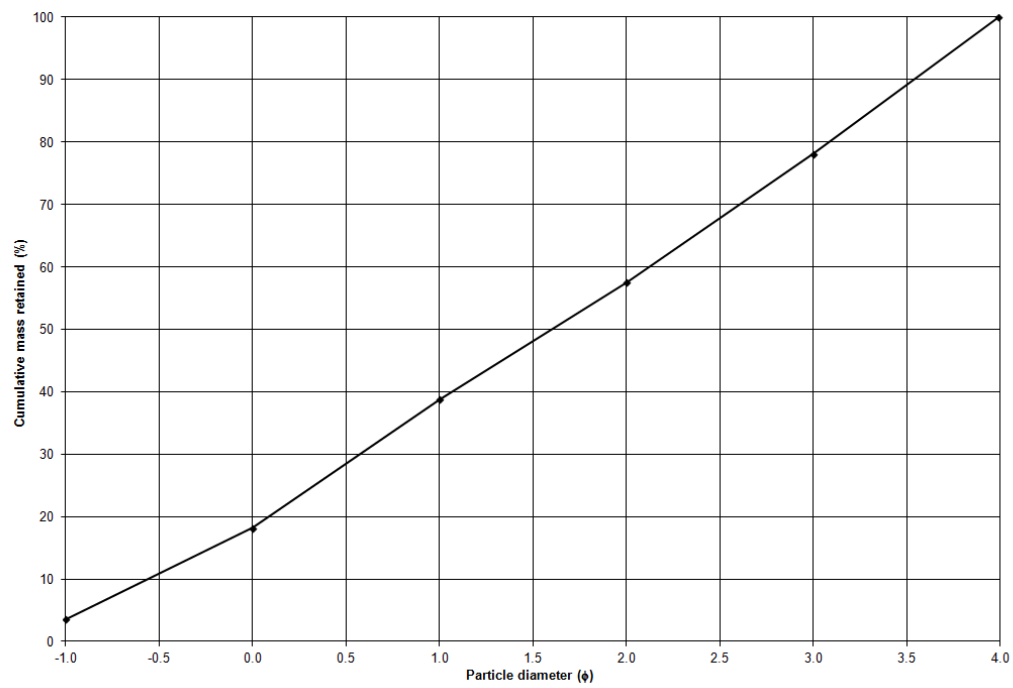
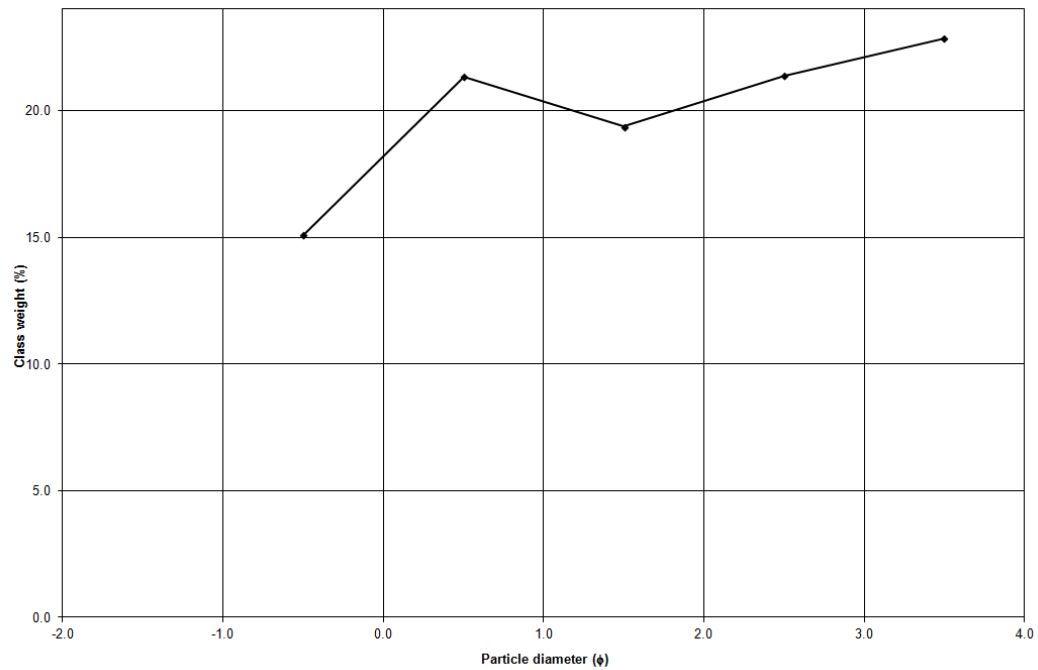


Stazione B55



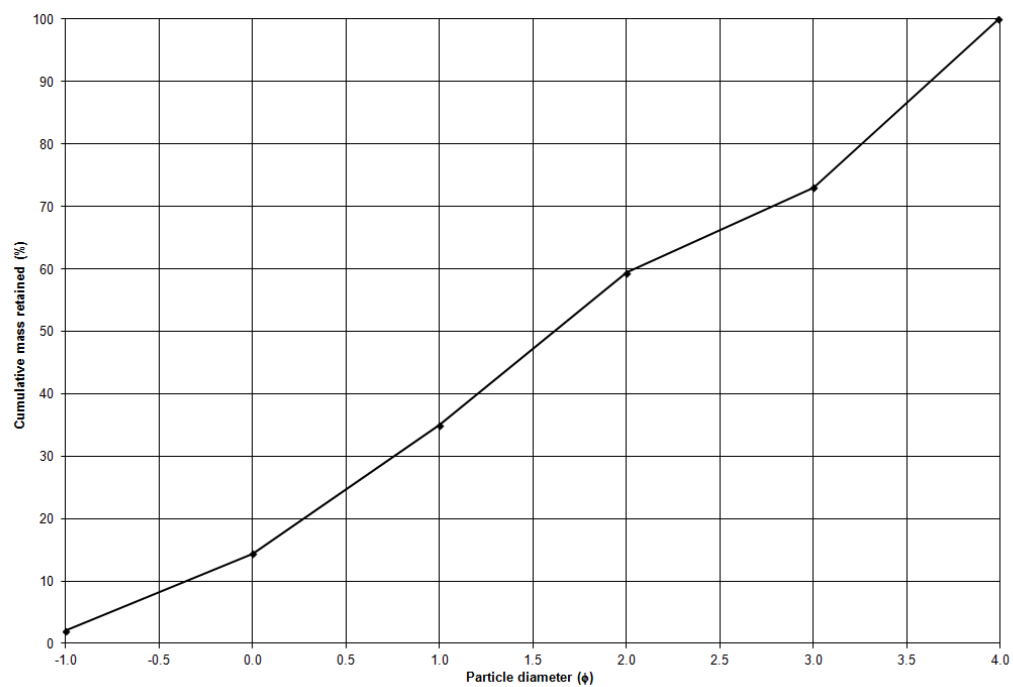
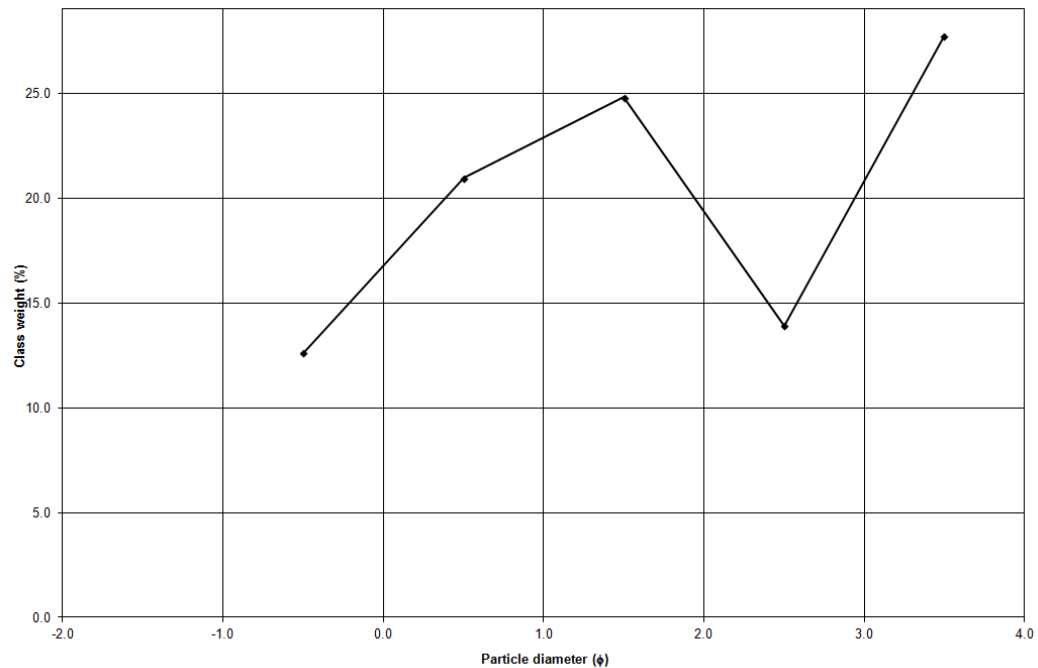


Stazione B56



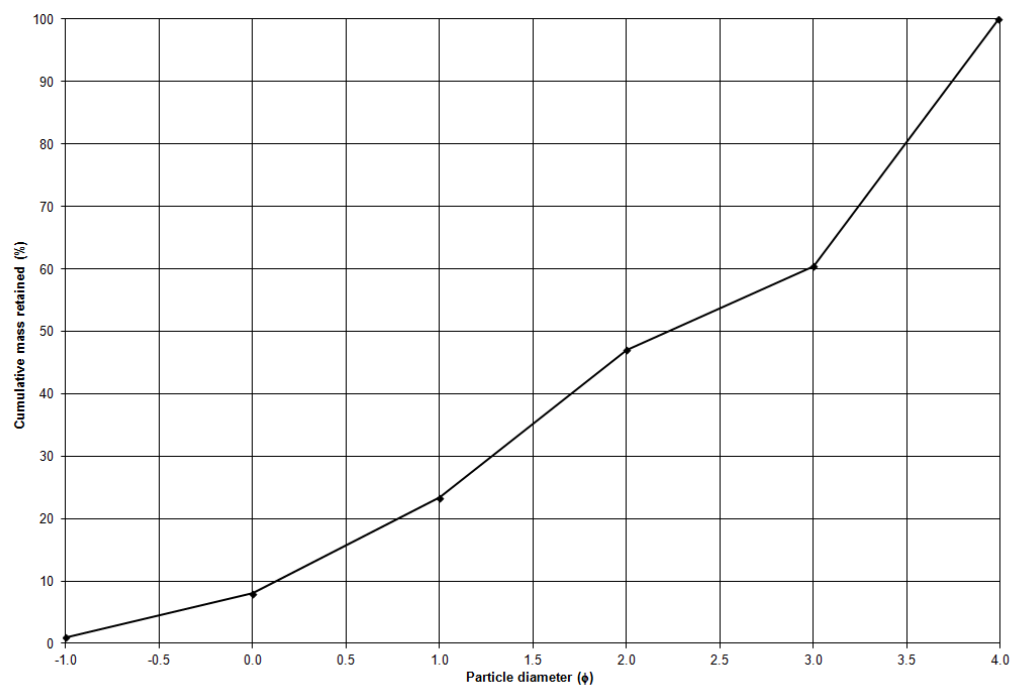
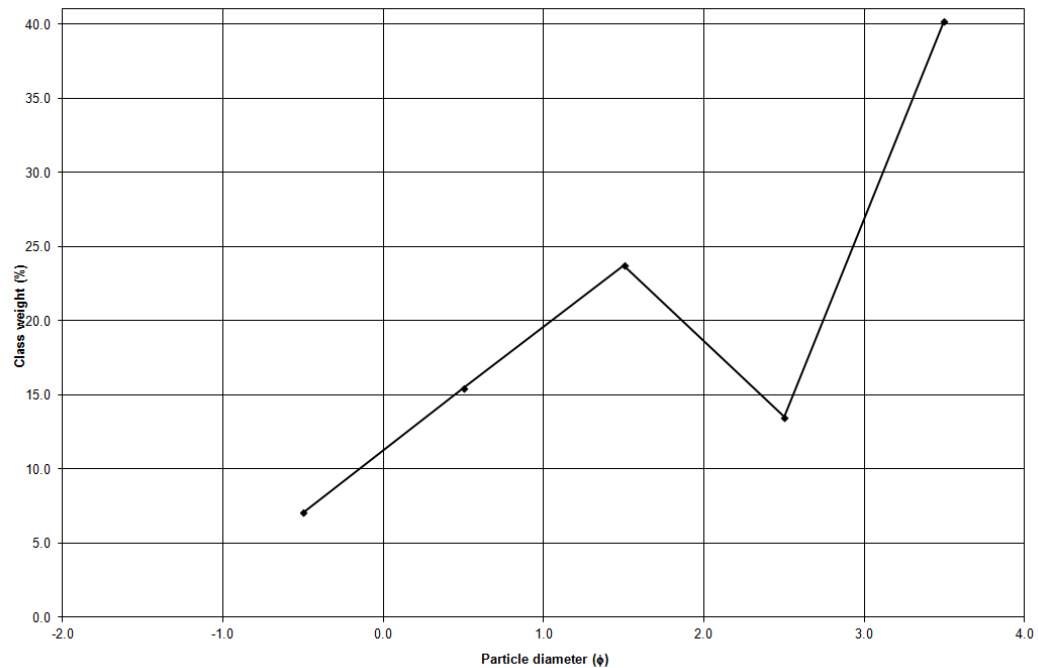


Stazione 57



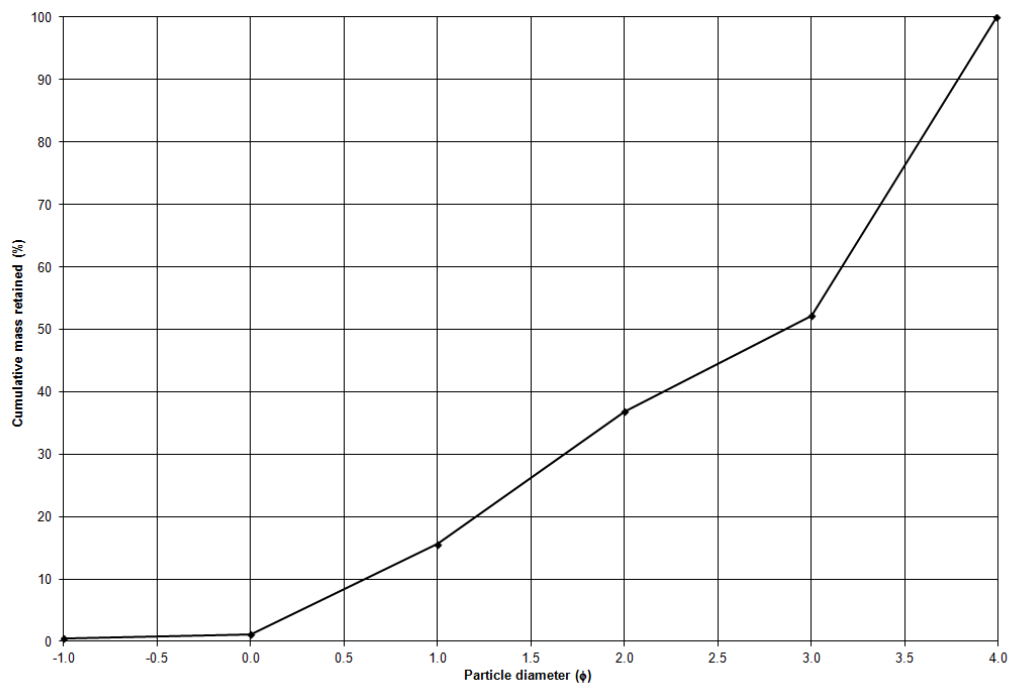
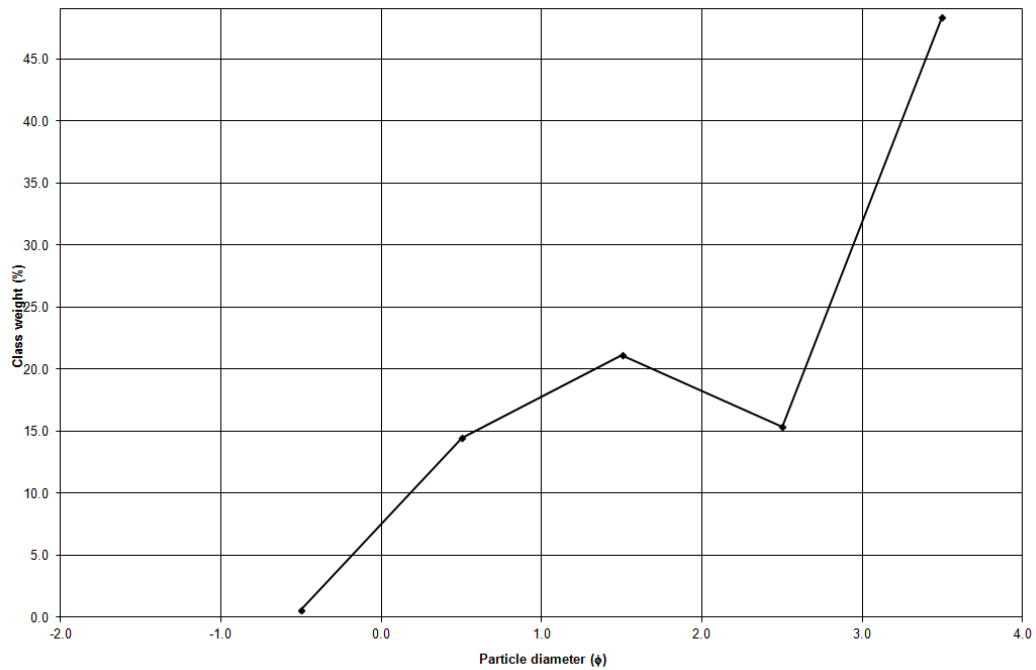


Stazione B58



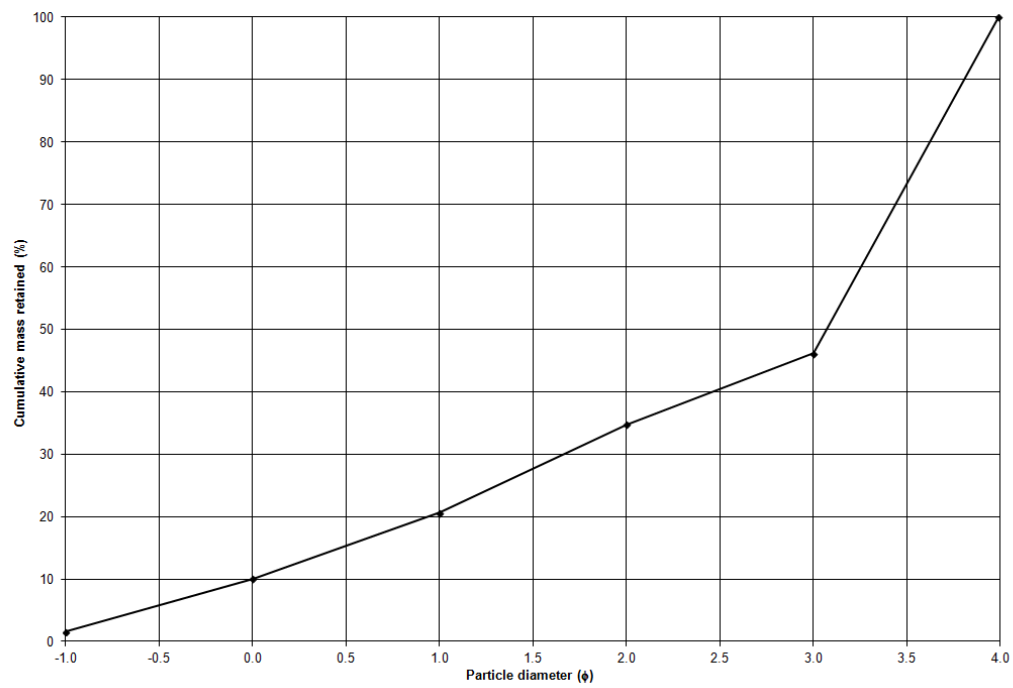
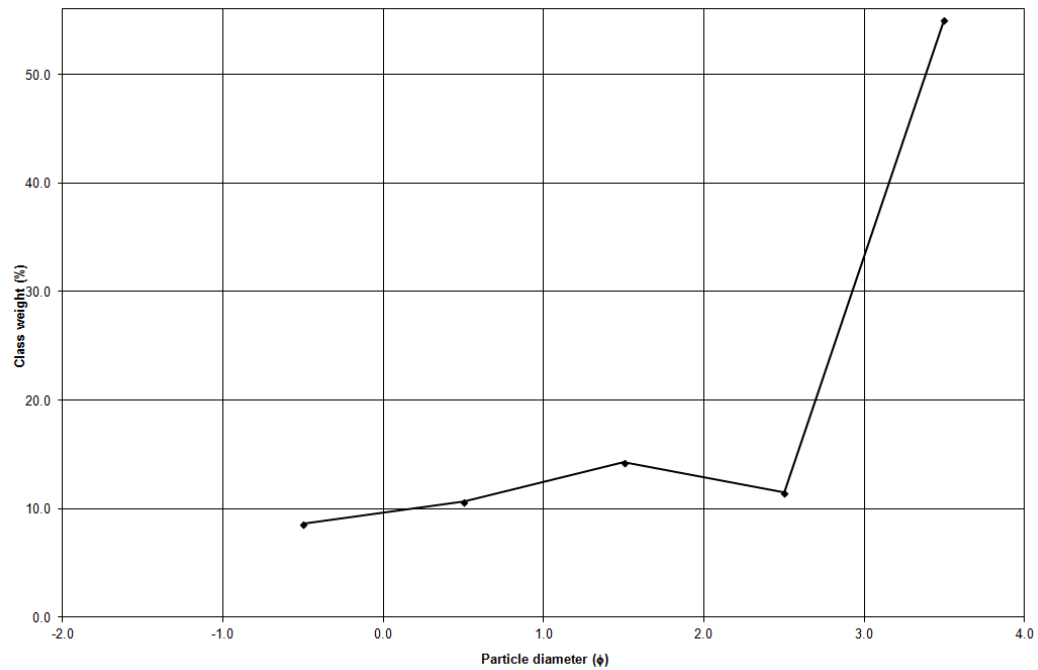


Stazione B59



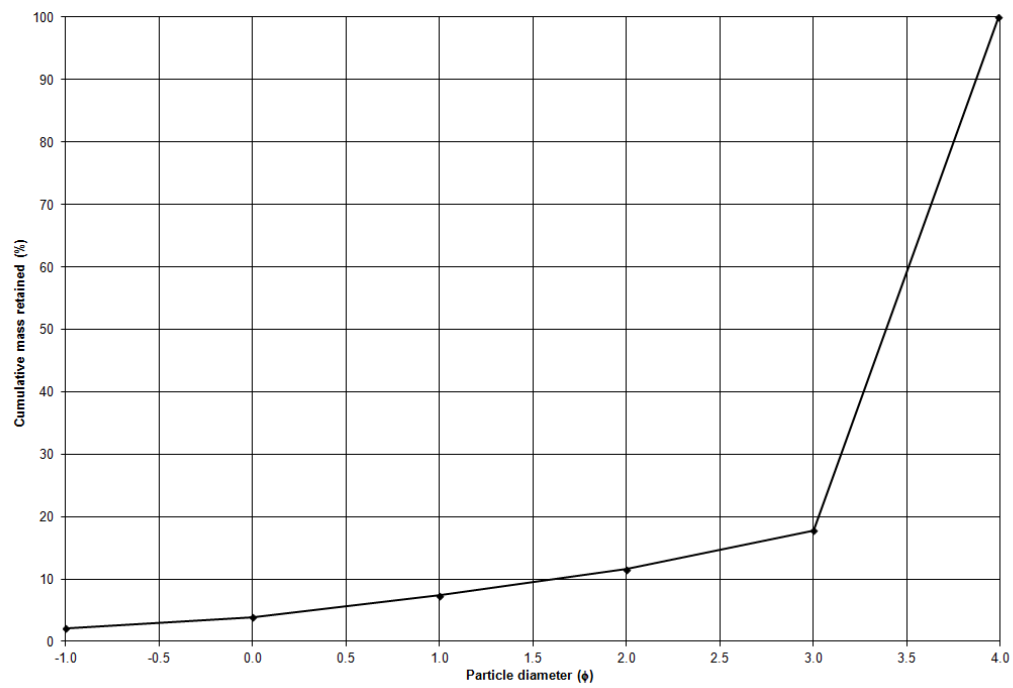
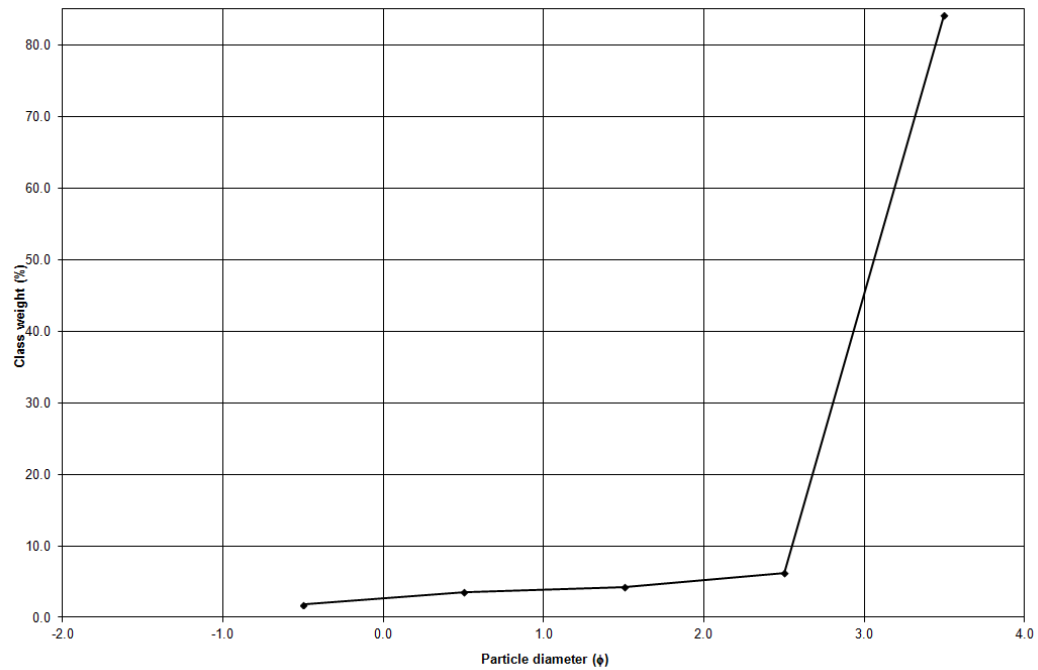


Stazione B60





Stazione B67





Stazione B68

