

## Filter Efficiency Test H500

			0.3um	0.5um	3.0um
<b>White Layer Only, H500</b>	Sample H500-13	28/05/2020	71.46%	91.02%	99.47%
	Sample H500-14	28/05/2020	67.20%	88.31%	99.19%
	Sample H500-15	28/05/2020	67.16%	88.19%	98.87%
	Sample H500-16	28/05/2020	74.31%	92.88%	99.41%
	<b>Averaged</b>		<b>70.03%</b>	<b>90.10%</b>	<b>99.23%</b>
	<b>Intersample Standard Dev.</b>		<b>3.49%</b>	<b>2.27%</b>	<b>0.27%</b>
<b>Blue layer Only, H500</b>	Sample H500-17	28/05/2020	69.12%	89.05%	99.20%
	Sample H500-18	28/05/2020	71.02%	90.43%	99.40%
	Sample H500-19	28/05/2020	70.16%	89.53%	99.45%
	Sample H500-20	28/05/2020	70.71%	89.72%	99.32%
	<b>Averaged</b>		<b>70.25%</b>	<b>89.68%</b>	<b>99.34%</b>
	<b>Intersample Standard Dev.</b>		<b>0.84%</b>	<b>0.57%</b>	<b>0.11%</b>
<b>Single layer, H500</b>	Sample H500-1	28/05/2020	87.63%	98.33%	99.89%
	Sample H500-2	28/05/2020	86.40%	97.95%	99.96%
	Sample H500-3	28/05/2020	85.67%	97.61%	99.98%
	Sample H500-4	28/05/2020	86.86%	98.01%	99.96%
	<b>Averaged</b>		<b>86.64%</b>	<b>97.98%</b>	<b>99.95%</b>
	<b>Intersample Standard Dev.</b>		<b>0.82%</b>	<b>0.30%</b>	<b>0.04%</b>
<b>Double Layer, H500</b>	Sample H500-5	28/05/2020	97.08%	99.86%	99.97%
	Sample H500-6	28/05/2020	96.00%	99.76%	99.97%
	Sample H500-7	28/05/2020	96.48%	99.79%	99.97%
	Sample H500-8	28/05/2020	97.46%	99.88%	99.98%
	<b>Averaged</b>		<b>96.75%</b>	<b>99.82%</b>	<b>99.97%</b>
	<b>Intersample Standard Dev.</b>		<b>0.65%</b>	<b>0.06%</b>	<b>0.01%</b>

<b>Triple Layer, H500</b>	Sample H500-9	28/05/2020	99.22%	99.92%	99.75%
	Sample H500-10	28/05/2020	99.01%	99.97%	99.99%
	Sample H500-11	28/05/2020	99.31%	99.98%	99.99%
	Sample H500-12	28/05/2020	99.14%	99.97%	99.98%
<b>Averaged</b>			<b>99.17%</b>	<b>99.96%</b>	<b>99.93%</b>
<b>Intersample Standard Dev.</b>			<b>0.13%</b>	<b>0.03%</b>	<b>0.12%</b>

## Filter Efficiency Test H500 (per sample)

			0,3µm	0,5µm	3,0µm
Single Layer, H500	Background measurement	28-05-2020 16:26:37	233933	86142	1945
		28-05-2020 16:27:37	227428	81748	1407
		28-05-2020 16:28:37	226702	82269	1277
		28-05-2020 16:29:37	226390	81695	1545
		28-05-2020 16:41:34	222989	81879	1333
		28-05-2020 16:42:34	223266	82389	1316
		28-05-2020 16:43:34	223463	82193	1257
		28-05-2020 16:44:34	221485	81769	1240
		<b>Average particles</b>	<b>225707</b>	<b>82511</b>	<b>1415</b>
Sample H500-1		28-05-2020 16:47:15	27852	1335	0
		28-05-2020 16:48:15	28133	1409	3
		28-05-2020 16:49:15	27904	1358	2
		28-05-2020 16:50:15	27768	1400	1
		<b>Average particles</b>	<b>27914</b>	<b>1376</b>	<b>2</b>
	<b>% Filter collection efficiency</b>	<b>87.63%</b>	<b>98.33%</b>	<b>99.89%</b>	
Sample H500-2		28-05-2020 16:51:46	30717	1731	1
		28-05-2020 16:52:46	31082	1699	1
		28-05-2020 16:53:46	30553	1647	0
		28-05-2020 16:54:46	30391	1676	0
		<b>Average particles</b>	<b>30686</b>	<b>1688</b>	<b>1</b>
	<b>% Filter collection efficiency</b>	<b>86.40%</b>	<b>97.95%</b>	<b>99.96%</b>	
Sample H500-3		28-05-2020 16:56:30	32489	1937	0
		28-05-2020 16:57:30	31733	1876	0
		28-05-2020 16:58:30	32685	2062	1
		28-05-2020 16:59:30	32478	2017	0

**Average particles**    **32346**    **1973**    **0**  
**% Filter collection efficiency**    **85.67%**    **97.61%**    **99.98%**

Sample H500-4	28-05-2020 17:01:02	30015	1705	1
	28-05-2020 17:02:02	29961	1631	1
	28-05-2020 17:03:02	29302	1648	0
	28-05-2020 17:04:02	29320	1573	0

**Average particles**    **29650**    **1639**    **1**  
**% Filter collection efficiency**    **86.86%**    **98.01%**    **99.96%**

Background measurement	28-05-2020 17:05:52	220648	85968	1622
	28-05-2020 17:06:52	217750	84829	1532
	28-05-2020 17:07:52	217294	84608	1558
	28-05-2020 17:08:52	216690	85108	1732

**Average particles**    **218096**    **85128**    **1611**

**Double Layer H500**

Sample H500-5	28-05-2020 17:10:47	6325	134	0
	28-05-2020 17:11:47	6286	117	0
	28-05-2020 17:12:47	6379	93	1
	28-05-2020 17:13:47	6445	133	1

**Average particles**    **6359**    **119**    **1**  
**% Filter collection efficiency**    **97.08%**    **99.86%**    **99.97%**

Sample H500-6	28-05-2020 17:16:22	8736	172	1
	28-05-2020 17:17:22	8742	201	0
	28-05-2020 17:18:22	8713	242	0
	28-05-2020 17:19:22	8711	205	1

**Average particles**    **8726**    **205**    **1**  
**% Filter collection efficiency**    **96.00%**    **99.76%**    **99.97%**

Sample H500-7	28-05-2020 17:21:18	7780	177	0
	28-05-2020 17:22:18	7871	167	1

	28-05-2020 17:23:18	7500	195	1	
	28-05-2020 17:24:18	7577	171	0	
	<b>Average particles</b>	<b>7682</b>	<b>178</b>	<b>1</b>	
	<b>% Filter collection efficiency</b>	<b>96.48%</b>	<b>99.79%</b>	<b>99.97%</b>	
Sample H500-8	28-05-2020 17:25:55	5589	104	0	
	28-05-2020 17:26:55	5422	81	0	
	28-05-2020 17:27:55	5651	109	0	
	28-05-2020 17:28:55	5509	130	1	
	<b>Average particles</b>	<b>5543</b>	<b>106</b>	<b>0</b>	
	<b>% Filter collection efficiency</b>	<b>97.46%</b>	<b>99.88%</b>	<b>99.98%</b>	
Triple layer, H500	Background measurement	28-05-2020 17:30:25	210249	85747	2532
		28-05-2020 17:31:25	209445	85859	2592
		28-05-2020 17:32:25	207826	85073	2736
		28-05-2020 17:33:25	207924	84831	2545
		<b>Average particles</b>	<b>208861</b>	<b>85378</b>	<b>2601</b>
Sample H500-9	28-05-2020 17:34:59	1747	176	26	
	28-05-2020 17:35:59	1601	30	0	
	28-05-2020 17:36:59	1659	34	0	
	28-05-2020 17:37:59	1512	31	0	
	<b>Average particles</b>	<b>1630</b>	<b>68</b>	<b>7</b>	
	<b>% Filter collection efficiency</b>	<b>99.22%</b>	<b>99.92%</b>	<b>99.75%</b>	
Sample H500-10	28-05-2020 17:39:33	1984	38	1	
	28-05-2020 17:40:33	2123	22	0	
	28-05-2020 17:41:33	2098	21	0	
	28-05-2020 17:42:33	2049	30	0	
	<b>Average particles</b>	<b>2064</b>	<b>28</b>	<b>0</b>	
	<b>% Filter collection efficiency</b>	<b>99.01%</b>	<b>99.97%</b>	<b>99.99%</b>	

Sample H500-11	28-05-2020 17:44:46	1407	17	0	
	28-05-2020 17:45:46	1423	17	1	
	28-05-2020 17:46:46	1431	19	0	
	28-05-2020 17:47:46	1489	14	0	
<b>Average particles</b>		<b>1438</b>	<b>17</b>	<b>0</b>	
<b>% Filter collection efficiency</b>		<b>99.31%</b>	<b>99.98%</b>	<b>99.99%</b>	
Sample H500-12	28-05-2020 17:49:29	1861	33	0	
	28-05-2020 17:50:29	1700	34	2	
	28-05-2020 17:51:29	1782	20	0	
	28-05-2020 17:52:29	1808	28	0	
<b>Average particles</b>		<b>1788</b>	<b>29</b>	<b>1</b>	
<b>% Filter collection efficiency</b>		<b>99.14%</b>	<b>99.97%</b>	<b>99.98%</b>	
<b>White layer only, H500</b>	Background measurement	28-05-2020 17:54:00	211665	89667	3241
		28-05-2020 17:55:00	209972	89847	3322
		28-05-2020 17:56:00	211880	90592	3647
		28-05-2020 17:57:00	207552	88315	3189
<b>Average particles</b>		<b>210267</b>	<b>89605</b>	<b>3350</b>	
Sample H500-13	28-05-2020 17:58:34	59356	7963	19	
	28-05-2020 17:59:34	59592	7942	18	
	28-05-2020 18:00:34	60115	7961	18	
	28-05-2020 18:01:34	61005	8309	16	
<b>Average particles</b>		<b>60017</b>	<b>8044</b>	<b>18</b>	
<b>% Filter collection efficiency</b>		<b>71.46%</b>	<b>91.02%</b>	<b>99.47%</b>	
Sample H500-14	28-05-2020 18:03:13	68823	10287	23	
	28-05-2020 18:04:13	68522	10340	27	
	28-05-2020 18:05:13	68967	10422	32	
	28-05-2020 18:06:13	69560	10846	27	
<b>Average particles</b>		<b>68968</b>	<b>10474</b>	<b>27</b>	

**% Filter collection efficiency    67.20%    88.31%    99.19%**

Sample H500-15	28-05-2020 18:07:42	69118	10730	33
	28-05-2020 18:08:42	69262	10496	37
	28-05-2020 18:09:42	69341	10653	41
	28-05-2020 18:10:42	68468	10452	41

<b>Average particles</b>	<b>69047</b>	<b>10583</b>	<b>38</b>
<b>% Filter collection efficiency</b>	<b>67.16%</b>	<b>88.19%</b>	<b>98.87%</b>

Sample H500-16	28-05-2020 18:12:05	54065	6368	22
	28-05-2020 18:13:05	53970	6393	20
	28-05-2020 18:14:05	53982	6406	26
	28-05-2020 18:15:05	54042	6360	11

<b>Average particles</b>	<b>54015</b>	<b>6382</b>	<b>20</b>
<b>% Filter collection efficiency</b>	<b>74.31%</b>	<b>92.88%</b>	<b>99.41%</b>

**Blue Layer only, H500**

Background measurement	28-05-2020 18:16:29	214102	93238	3588
	28-05-2020 18:17:29	214604	93205	3550
	28-05-2020 18:18:29	213782	92229	3430
	28-05-2020 18:19:29	212550	91262	3281

<b>Average particles</b>	<b>213760</b>	<b>92484</b>	<b>3462</b>
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Sample H500-17	28-05-2020 18:35:52	66719	10039	30
	28-05-2020 18:36:52	65911	10091	33
	28-05-2020 18:37:52	65244	10096	27
	28-05-2020 18:38:52	66161	10294	21

<b>Average particles</b>	<b>66009</b>	<b>10130</b>	<b>28</b>
<b>% Filter collection efficiency</b>	<b>69.12%</b>	<b>89.05%</b>	<b>99.20%</b>

Sample H500-18	28-05-2020 18:40:24	62043	9003	24
	28-05-2020 18:41:24	61942	8695	21
	28-05-2020 18:42:24	61879	8869	17

	28-05-2020 18:43:24	61894	8832	21
	<b>Average particles</b>	<b>61940</b>	<b>8850</b>	<b>21</b>
	<b>% Filter collection efficiency</b>	<b>71.02%</b>	<b>90.43%</b>	<b>99.40%</b>
Sample H500-19	28-05-2020 18:44:56	64204	9746	26
	28-05-2020 18:45:56	63711	9603	22
	28-05-2020 18:46:56	63514	9634	10
	28-05-2020 18:47:56	63717	9738	18
	<b>Average particles</b>	<b>63787</b>	<b>9680</b>	<b>19</b>
	<b>% Filter collection efficiency</b>	<b>70.16%</b>	<b>89.53%</b>	<b>99.45%</b>
Sample H500-20	28-05-2020 18:49:20	62734	9460	25
	28-05-2020 18:50:20	62818	9537	20
	28-05-2020 18:51:20	62134	9462	18
	28-05-2020 18:52:20	62727	9585	31
	<b>Average particles</b>	<b>62603</b>	<b>9511</b>	<b>24</b>
	<b>% Filter collection efficiency</b>	<b>70.71%</b>	<b>89.72%</b>	<b>99.32%</b>



## Differential Pressure test H500

Unsterilised H500 material (from package)

			cmH2O	Pa	Pa/cm2		
White Layer	Sample H1	28/5/2020	6.5	637.4	72.44	$\mu$	$\sigma$
	Sample H2	28/5/2020	5.4	529.6	60.18		
	Sample H3	28/5/2020	5.1	500.1	56.83		
	Sample H4	28/5/2020	4.5	441.3	50.15		
						59.9	9.3
Blue Layer	Sample H5	28/5/2020	3.7	362.8	41.23	$\mu$	$\sigma$
	Sample H6	28/5/2020	3.5	343.2	39.00		
	Sample H7	28/5/2020	4	392.3	44.58		
	Sample H8	28/5/2020	4	392.3	44.58		
						42.3	2.7
Single layer	Sample H9	28/5/2020	9.1	892.4	101.41	$\mu$	$\sigma$
	Sample H10	28/5/2020	10.3	1010.1	114.78		
	Sample H11	28/5/2020	9.6	941.4	106.98		
	Sample H12	28/5/2020	10.5	1029.7	117.01		
						110.0	7.2
Double layer	Sample H13	28/5/2020	20.4	2000.6	227.34	$\mu$	$\sigma$
	Sample H14	28/5/2020	18.9	1853.5	210.62		
	Sample H15	28/5/2020	19	1863.3	211.73		
	Sample H16	28/5/2020	20.2	1980.9	225.11		
						218.7	8.7
Triple layer	Sample H17	28/5/2020	29	2843.9	323.17	$\mu$	$\sigma$
	Sample H18	28/5/2020	32.9	3226.4	366.63		
	Sample H19	28/5/2020	29.8	2922.4	332.09		
	Sample H20	28/5/2020	31.1	3049.9	346.58		
						342.1	19.0

## Water column pressure test H500

				cm H <sub>2</sub> O		
Unsterilised material (from package)	White Layer H500	Sample PT-H500-1	28/05/2020	82		
		Sample PT-H500-2	28/05/2020	104		
		Sample PT-H500-3	28/05/2020	108	$\mu$	$\sigma$
		Sample PT-H500-4	28/05/2020	93	96.8	11.7
Blue Layer H500	Blue Layer H500	Sample PT-H500-5	28/05/2020	76		
		Sample PT-H500-6	28/05/2020	81		
		Sample PT-H500-7	28/05/2020	83	$\mu$	$\sigma$
		Sample PT-H500-8	28/05/2020	83	80.8	3.3
Single Layer H500	Single Layer H500	Sample PT-H500-9	28/05/2020	129		
		Sample PT-H500-10	28/05/2020	124		
		Sample PT-H500-11	28/05/2020	128	$\mu$	$\sigma$
		Sample PT-H500-12	28/05/2020	121	125.5	3.7
Double Layer H500	Double Layer H500	Sample PT-H500-13	28/05/2020	128		
		Sample PT-H500-14	28/05/2020	142		
		Sample PT-H500-15	28/05/2020	129	$\mu$	$\sigma$
		Sample PT-H500-16	28/05/2020	146	136.3	9.1
Triple Layer H500	Triple Layer H500	Sample PT-H500-17	28/05/2020	141		
		Sample PT-H500-18	28/05/2020	146		
		Sample PT-H500-19	28/05/2020	155	$\mu$	$\sigma$
		Sample PT-H500-20	28/05/2020	160	150.5	8.6