



Swiss Water Tech ceramic filters are made by Katadyn, the Swiss manufacturer of the world renowned 0.2 micron nominal ceramic.

**Swiss Water Tech – Ceramic:**

| Date       | Documentation Source          | Pathogens                     | Concentration                  | Test Duration | Results/Removal |
|------------|-------------------------------|-------------------------------|--------------------------------|---------------|-----------------|
| 12/7, 2004 | Institut Bachema, Switzerland | <i>Pseudomonas aeruginosa</i> | 4.9 x 10 <sup>7</sup> / 100 ml | Single test   | >99.9999%       |

**Swiss Water Tech – Ceramic/Carbon:**

| Date       | Documentation Source          | Pathogens                     | Concentration                  | Test Duration | Results/Removal |
|------------|-------------------------------|-------------------------------|--------------------------------|---------------|-----------------|
| 12/7, 2004 | Institut Bachema, Switzerland | <i>Pseudomonas aeruginosa</i> | 4.9 x 10 <sup>7</sup> / 100 ml | Single test   | >99.9999%       |

**Other 0.2 micron nominal ceramic filter made by Katadyn:**

| Date       | Documentation Source                                     | Pathogens   | Concentration  | Test Duration   | Results/Removal   |
|------------|--|---|--|---|---|
| 7/21, 1997 | National Water and Sewerage Corporation, Kampala, Uganda | Coliform total  | Raw water sample reflecting real conditions, > 20,000/ml                                     | single test   | >99.9999%   |
| 6/28, 1995 | University of Arizona, USA                               | <i>Klebsiella terrigena</i><br><i>Cryptosporidium parvum</i>  | 1,2 x 10 <sup>10</sup><br>1.6 x 10 <sup>6</sup>  | test series<br>1/378/<br>756 litres   | >99.9999%<br>>99.9%   |
| 3, 1994    | Swiss Tropical Institute Basle, Switzerland              | <i>Giardia lamblia</i><br><i>Entamoeba invadens</i>   | 3 x 10 <sup>6</sup> cysts/ml<br>2/4 x 10 <sup>4</sup> cysts/ml                               | culture test<br>culture test  | >99.9%<br>>99.9%  |
| 6-7, 1991  | Laboratorio Clínico Lima Perú                            | <i>Escherichia coli</i><br><i>Enterobacter aerogenes</i><br><i>Vibrio cholerae</i><br><i>Escherichia coli</i><br><i>Proteus vulgaris</i><br><i>Aerobacter aerogenes</i><br><i>Streptococcus B</i> | 21,500/ml<br>12,500/ml<br>700,000/ml<br>500,000/ml<br>500,000/ml<br>100,000/ml<br>100,000/ml | single test<br>single test<br>single test<br>single test<br>single test<br>single test<br>single test | >99.9999%<br>>99.9999%<br>>99.9999%<br>>99.9999%<br>>99.9999%<br>>99.9999%<br>>99.9999% |

**Other 0.2 micron nominal ceramic filter made by Katadyn (continued):**



| Date       | Documentation Source  | Pathogens                               | Concentration                  | Test Duration                    | Results/Removal |
|------------|---|---|--------------------------------|----------------------------------|-----------------|
| 6, 1990    | Departement of Industry<br>Labor and Human<br>Relations<br>Wisconsin, USA   | <i>Giardia</i>                          | 100,000 cysts/ml               | single test                      | >99.9 %         |
|            |   | <i>Aeromonas hydrophila</i>             | 100,000 cells/ml               | single tes                       | >99.9%          |
|            |   | <i>Klebsiella aerogenes</i>             | 10 <sup>6</sup> cells/ml       | single test                      | >99.9999%       |
|            |   | <i>Pseudomonas aeruginosa</i>           | 10,000 cells/ml                | single test                      | >99.9999%       |
|            |   | <i>Streptococcus faecalis</i>           | 100,000 cells/ml               | single test                      | >99.9999%       |
|            |   | <i>Vibrio cholerae</i>                  | 10,000 cells/ml                | single test                      | >99.9999%       |
|            |   | <i>Yersinia enterocolitica</i>          | 100,000 cells/ml               | single test                      | >99.9999%       |
|            |   | <i>Escherichia coli</i>                 | 7.6 x 10 <sup>6</sup> cells/ml | single test                      | >99.9999%       |
|            |   | <i>Entamoeba histolytica</i>            | 400 cysts/ml                   | single test                      | >99.9%          |
| 6, 1982    | University of Michigan<br>Institute of Environmental<br>& Public Health,<br>Ann Arbor, Michigan,<br>USA   | <i>Giardia muris</i>                    | 100,000 cysts/liter            | 15 tests usings                  | >99.9%          |
|            |   | <i>Tetrahymena multi-micronucleatum</i> | 100,000 cells/liter            | polycarbonate<br>filter membrane | >99.9%          |
|            |   | <i>Paramecium pyriformis</i>            | 100,000 organisms/<br>liter    | technique over<br>26 days with   | >99.9%          |
|            |   | <i>Enterobacter aerogenes</i>           |                                | alternate periods<br>non-use     | >99.9%          |
| 9, 1981    | U.S. EPA/ University of<br>Michigan, Institute of<br>Environmental and<br>Industrial Health,<br>School of Public Health,<br>Ann Arbor, Michigan,<br>USA | <i>Klebsiella aerogenes</i>             | 1,000,000/ml                   | 21 culture tests                 | >99.9999%>      |
|            |   | <i>Vibrio cholerae</i>                  | 1,000/ml                       | per day over                     | 99.99%          |
|            |   | <i>Pseudomonas aeruginosa</i>           | 1,000/ml                       | a 26 day<br>period with          | >99.99%         |
|            |   | <i>Yersinia enterocolitica</i>          | 10,000/ ml                     | alternate periods<br>of          | >99.999%        |
|            |   | <i>Streptococcus faecalis</i>           | 10,000/ ml                     | non-use                          | >99.999%        |
|            |   | <i>Aeromonas hydrophila</i>             | 1,000,000/ ml                  |                                  | >99.9999%       |
| 1, 1976    | Insitute Pasteur<br>Lille, France   | Coliform total                          | 46 x 10 <sup>7</sup> /100 ml   | single test                      | >99.9999%>      |
|            |   | <i>Coliform faecalis</i>                | 24 x 10 <sup>7</sup> /100 ml   | single test                      | 99.9999%        |
|            |   | <i>Streptococcus faecalis</i>           | 11 x 10 <sup>5</sup> /100 ml   | single test                      | >99.9999%>      |
|            |   | <i>Salmonella</i>                       | 240/100 ml                     | single test                      | 99.9999%        |
|            |   | <i>Clostridium</i>                      | 5 x 15 <sup>5</sup> /100 ml    | single test                      | >99.9999%       |
| 4/5, 1970  | Laboratory of Central<br>Brunnen, Switzerland   | <i>Escherichia coli</i>                 | 3,000/ml                       | 6 years                          | >99.99%         |
| 1/5, 1962  | Swiss Tropical Institute<br>Basle, Switzerland  | <i>Entamoeba invadens</i>               | not quantified                 | culture test                     | Zero<br>growth  |
| 5/20, 1947 | University of Basle<br>Institute of Hygiene<br>Switzerland  | Coliform bacteria                       | 10 x 10 <sup>7</sup> /ml       | 7 months                         | > 99.9999%      |