



NSF P477: DRINKING WATER TREATMENT UNITS – MICROCYSTIN

With blue-green algae producing dangerous microcystins in an alarming amount of areas worldwide, NSF International responded by creating a protocol to help reduce harmful microcystins in drinking water.

NSF P477 includes requirements for verifying that point-of-use (POU) water filters can effectively reduce harmful microcystins in drinking water. These requirements include testing these filters throughout and beyond the manufacturer's recommended treatment capacity in regard to materials, design, construction and performance. Testing is done with actual microcystins at levels representing some of the highest seen in drinking water, for reduction down to the 0.3 ppb (parts per billion) level recommended by the U.S. EPA for children under 6 years of age.

What Does Certification Cover?

To earn NSF certification, water treatment systems must undergo extensive testing to confirm that they meet the strict requirements of the protocol, which includes verifying that:

- > The system is structurally sound.
- > Any microcystin contaminant reduction claims shown on the label are true.
- > The system does not add any harmful contaminants to the water.
- > The product labeling, advertising and literature are not misleading.

Why certify to P477?

- > Certification will provide your customers piece of mind that your product effectively removes cyanotoxins from nearby lakes or rivers from their drinking water.
- > Currently, microcystin is the only cyanotoxin with established U.S. Environmental Protection Agency (EPA) limits and certification proves your products meet these limits.

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Why work with NSF?

- > NSF International developed the microcystin test protocol at the request of regulatory agencies, based on our water testing and standard creation expertise.
- > As the developer of this protocol, we are well versed in testing and certifying products to its specifications.
- > We run the world's largest POU/POE test facility with 30 state-of-the-art water filter test rigs.
- > Our capabilities extend to include full chemical, microbiological and physical testing.
- > The NSF mark is recognized and respected by health officials and consumers as a symbol of product quality and integrity.
- > Our staff includes experienced toxicologists, chemists and engineers.

NSF INTERNATIONAL

789 N. Dixboro Road | Ann Arbor, MI 48105 USA

t: +1.734.769.8010 | w: www.nsf.org

e: americas@nsf.org | europe@nsf.org | asia@nsf.org