

Onsite Wastewater Treatment



Expedited Market Approvals for Advanced Residential Wastewater Treatment Systems

Save up to 50% in Test Fees and One Year in Test Duration through Simultaneous, Multiple Standards Testing

The opportunities and new technology in the advanced onsite residential wastewater treatment systems industry are growing at a rapid pace. At the forefront of this evolving market is NSF International, a not-for-profit organization specializing in protecting public health through consensus standards development, product testing and certification. With over 40 years of experience, NSF certification of residential wastewater treatment systems is the most respected most trusted program in North America.



Recognizing that compliance requires an investment in both fees and time, NSF's standards for wastewater treatment systems have been developed in layers rather than in isolation from one another. For manufacturers certifying products, this means there are numerous benefits realized by certifying the same product to multiple standards at the same time. For example, a manufacturer can simultaneously test a product against three NSF standards and achieve certification in just six months time as opposed to 18 months if tested sequentially. Fees are also significantly reduced, by as much as 50% in the same scenario.

Considering the cost and time benefits, manufacturers often take the opportunity to certify to multiple standards as a way to enter into new markets they may have otherwise postponed.

The following NSF wastewater treatment systems standards can be performed simultaneously in one test, with one system, and at one test location:

NSF Standard #	Standard Description	Certifies
40	The most recognized and required NSF standard for this industry, with more than 30 years of market use and acceptance	CBOD ₅ and Total Suspended Solids reduction and pH control
245	Meets the growing demand of nutrient reduction in many coastal areas and sensitive environments	Total Nitrogen reduction, in addition to Std 40 requirements
350	For water re-use systems, to address depleting water sources, declining central water infrastructure, and the desire for more sustainable living	Turbidity and E. coli reduction, in addition to Std 40 requirements

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105
800.NSF.MARK
www.nsf.org

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Testing to these three standards sequentially would require 18 months of time and would cost accordingly. But by testing a single product to all three standards simultaneously, you can avoid substantial added time and cost – as much as 50% in cost and 12 months of time.

Customized Testing

A variety of other analyses can be added to the above that address individual market needs with requirements beyond the NSF Standards, such as those that require demonstration of Fecal Coliform, Total Coliform, Total Phosphorous reduction and others. Again, the time and cost savings to include these in a single test is substantial.

Multiple Test Locations

NSF utilizes test facilities in the United States, Canada and in Europe. All are equipped to provide testing to meet the NSF Standards. In addition, several test locations have specialized capabilities to perform testing in accordance with other National Standards, including the European Norms and Canadian National Standards, other NSF Standards for wastewater treatment components and commercial treatment systems, Maritime Standards for shipboard treatment systems, and more.

From the Laboratory to the Field

An increasing number of markets request or require field sampling of treatment system installations to further validate system performance in addition to meeting current national standards for initial product approval. NSF Standard 360 has been developed to meet exactly this need, with one comprehensive study that encompasses the proper number of locations, frequency of sample collection, installation screening, appropriate third-party independence and overall quality assurance.

Contact

For more information on NSF standards, testing and certification for residential wastewater treatment systems, contact either NSF Headquarters or local Brussels office via:

NSF Headquarters

Tel: (+1) 734.769.8010

Email: wastewater@nsf.org

Web: www.nsf.org/info/ww

NSF Europe

Tel: +32 2 771 3654

Email: europe@nsf.org

Web: www.nsf.org/info/ww

