



DOW™ FILMTEC™ Membranes

Residential Solutions from Dow

The Problem

Resource investment to obtain NSF/ANSI 58 certification for point-of-use RO systems

The cost and time involved in obtaining point-of-use (POU) reverse osmosis (RO) system certifications can significantly impact how quickly an Original Equipment Manufacturer (OEM) realizes a return on investment from new product launches and new component supplier qualifications.

The Dow Solution

Save time, money and resources using Dow's data transfer testing program for your Drinking Water Treatment Unit (DWTU) NSF/ANSI 58 certification.

Certifications for safe use and performance by independent testing labs are critical to vetting a DWTU and demonstrating to the consumer the efficacy of the product from an objective organization using standard testing conditions. Yet qualifying new drinking water treatment systems is a costly and time consuming endeavor. The safe use and performance testing of individual components and the system as a whole can take months to obtain and costs tens of thousands of dollars. It is not uncommon for retesting and resubmitting of samples to occur, which only extends the time to market and creates unplanned costs and delays.

DOW™ FILMTEC™ membrane performance is world-class and sets the standard for contaminant reduction levels across the industry. In addition to passing the NSF/ANSI 58 standard for material safety for drinking water use, DOW FILMTEC standard TW30-1812 elements have been NSF/ANSI 58 performance certified with numerous other metal rejections, shown in Table 1.

Table 1. Metal rejections for NSF/ANSI Standard 58 listed DOW FILMTEC Membranes

Contaminant**	Average Percent Reduction*
Pentavalent Arsenic	99.6
Barium	98.8
Cadmium	98.8
Chromium (Hexavalent)	99.1
Chromium (Trivalent)	99.7
Copper	99.0
Fluoride	97.7
Lead	99.3
Radium 226/228	80.0
Selenium	98.1
Turbidity	98.9

*These values are for properly maintained units and were obtained from a distinct DWTU under NSF/ANSI 58. Poorly maintained units will not be as effective at removing contaminants and, in the worst case, may not remove any contaminants. The test data results may be transferred to other manufacturer's DWTU, if the system meets the requirements contained on the NSF document entitled, "Data Transfer Procedure for Devices using FilmTec Reverse Osmosis", dated 05/03/07.

** OEMs are responsible for their DWTU systems passing NSF/ANSI Standard 58 material safety and TDS reduction tests. NSF/ANSI Standard 58 listed DOW FILMTEC membranes have also passed NSF 58 cyst and nitrate reduction tests, which are DWTU dependent and are not transferable.

For more information, please visit the NSF website: <http://info.nsf.org/Certified/DWTU/Listings.asp?Company=44420&Standard=058>