



Water & Process Solutions

Introducing Dow Water & Process Solutions

Who We Are

Dow Water & Process Solutions (DW&PS) is a leading filtration, purification and separation technology supplier, offering more than 1500 advanced ion exchange and membrane solutions to businesses, consumers, industries and municipalities around the world. Through the organization's legacy of experience, innovation and partnership, DW&PS customers can depend on a cleaner, safer and sustainable supply of water for drinking, food and pharmaceutical processing, and energy, manufacturing and mining operations --- with increased business value and reduced cost.

DW&PS is a business unit of the Dow Chemical Company, a diversified company delivering a broad range of products and services to customers in approximately 160 countries, connecting chemistry and innovation with the principles of sustainability to help provide everything from fresh water, food and pharmaceuticals to paints, packaging and personal care products.

Our History

DW&PS has a rich history of market leadership and innovation—and it all started with a twist that changed the industry. In the 1970s, John Cadotte developed a spiral-wound reverse osmosis (RO) membrane that revolutionized water treatment and ultimately reduced the cost of reverse osmosis by two-thirds. In 1985, Dow acquired Cadotte's FilmTec Corporation and its market-leading technologies. Today, Dow Water & Process Solutions is the leading global supplier and largest manufacturer of RO membranes, with an installed capacity to treat more than 8 billion cubic meter of water per year.

From RO elements, to ion exchange processing resins and contaminant removal media, today's DW&PS continues a historic commitment to three key principals:

- Market-leading product performance
- A unique and differentiating approach to service and collaboration supporting sustainable, plentiful supplies of water.
- Research and development to help solve the world's greatest challenges in health, energy, transportation, infrastructure and sustainable consumption – and unlocking business opportunities through innovation.

What We Do

You can find our components hard at work in the systems that support human health, economic development and a cleaner environment. DW&PS products help make clean municipal drinking water, electricity from nuclear and coal-fired power plants, electronics, pharmaceuticals and clean-burning transportation fuels – to name a few. Our research and development efforts create high-end component technologies that are critical to the functionality of water purification and processing systems.

Our Technologies

Dow Water & Process Solutions' higher-performing, quality products and components drive real-world business value for customers.

- **Reverse Osmosis (RO) and Nanofiltration (NF) membrane technology (FILMTEC™ membranes).** DW&PS' RO and NF technologies enable a wide variety of industrial, municipal, commercial and home drinking water applications. DOW™ FILMTEC™ BW30HR-440i and BW30XFR-400/34i brackish water elements are essential developments for power generation and electronics manufacturing, earning the distinction of being two of the top innovations in the global water industry. Our market-leading 16-inch diameter RO modules contain nearly four times the membrane of market standard 8-inch modules, and lower the cost of capital required for desalination system by 10 to 20 percent.
- **Ion Exchange (IX) Resins.** DOWEX™ resins are the world's leading brand for ion exchange resins, supported by more than 60 years of manufacturing experience. DOWEX™ ion exchange resins include a broad line of products for use in industrial processing water, drinking water, food and pharmaceutical processing and power generation. Catalysts from DW&PS, such as DOW™ AMBERLYST™, offer fuel developers the flexibility to produce biodiesel from more than 30 different feedstocks, including crude animal fat, without yield loss, acids or waste.
- **Pressurized Ultrafiltration (DOW™ UF) Technology.** This membrane separation system is used often as a pretreatment to reverse osmosis (RO) purification. The DOW™ Ultrafiltration SFP-2880 element design has 50 percent more membrane active area in a smaller, more compact membrane design, shrinking the overall system footprint by as much as one-half.
- **Titanium-based Arsenic Removal Media.** ADSORBSIA™ from Dow is the industry's highest-capacity media over a wide range of water conditions. ADSORBSIA™ offers a cost-effective option for reducing arsenic levels in drinking water and meets EPA standards for human and environmental safety.
- **Electrodeionization (DOW™ EDI) Technology.** The first cost-effective and environmentally-friendly alternative to post-RO deionization applications, the DOW™ EDI module employs a leak-free and low maintenance spiral wound design housing membranes and ion exchange resins. DOW™ EDI modules optimize performance, maintain continuous product quality and can produce up to 18 M - cm of high purity water with high silica and boron rejection.