

Treatment Solutions

For General Industrial Assets



e9 Treatments offers game-changing surface treatment solutions, designed by surface modification experts, to protect and enhance the operational efficiency of industrial assets used by industries across the globe.

These solutions are tailored to specific asset types and environments and designed to transform how treated equipment surfaces perform in harsh industrial environments. Treated surfaces are hydrophobic and oleophobic capable of repelling liquids, oils, slurries and other contaminants to provide durable repellency and long-lasting performance.



IDEAL ASSETS FOR TREATMENT

- INSTRUMENTATION & SENSORS
 - Flow meters,
 - Level sensors
 - Pressure transmitters
 - Thermowells
- VALVES & ACTUATORS
 - Ball, butterfly, diaphragm, gate valves
 - Valve stems, seats & trim
 - Automatic control valves
- VESSELS & TANKS
 - Tank hatches & seals
 - Internal liners
 - Blending and mixing apparatus
- PUMPS & PIPES
 - Centrifugal & positive displacement pumps
 - Internal metal, wetted surfaces

KEY BENEFITS



REDUCE FOULING, BUILDUP & ADHESION

The treated surface inhibits adhesion of contaminants such as oils, slurries and processing residue. Minimizes buildup in flow paths and on sealing faces, preventing sticking or cavitation. Allows for improved flow efficiency and reduces pressure drops in pumping applications. Eases cleaning and helps avoid frequent maintenance.



IMPROVE MEASUREMENT ACCURACY & RELIABILITY

Measurement sensors stay cleaner longer, remain in calibration and operate more efficiently, thereby improving signal stability for flow, temperature, density, pressure and other measurements. Devices maintain longer performance between service and enhanced uptime leads to more predictable production schedules.



PROTECT & EXTEND FUNCTIONAL LIFE OF CRITICAL ASSETS

Protects surface integrity by reducing fouling. Repels moisture and contaminants that degrade surfaces and slows the onset of corrosion. Improves lubricity between cooperating surfaces to help ensure equipment operates longer and more efficiently.



HIGH ROI, LOWER OPERATING COSTS

Improved efficiency, more reliable/less variable measurements, extended equipment performance, fewer unplanned interruptions and less maintenance translate to lower operating costs.



TREATMENT CHARACTERISTICS

-  Clear, ultra-thin surface protection, Surface appearance, conductivity, and function remain unaltered
-  Temperature resistant to handle most industrial environments
-  Treated assets numbering hundreds of thousands deployed globally
-  Will not void device warranty, as validated by many OEMs. Compatible with existing materials and design
-  Repellent to water, oil & many contaminants



Magnetic Flow Meter Before (left) and After (right) Treatment

IDEAL FOR MANY INDUSTRIES

- PROCESSING FACILITIES
- WATER & WASTEWATER SYSTEMS
- CHEMICAL PRODUCTION
- HEAVY EQUIPMENT & AUTOMATION
- INDUSTRIAL MANUFACTURING

SERVICE & APPLICATION EXPERTISE



e9 Treatments recognizes that a single Treatment Solution may not fit every application. That's why we offer a diverse portfolio of Treatment Solutions, tailored to specific needs. We partner with clients to deeply understand their challenges, analyzing material properties, environmental factors, fouling characteristics, and maintenance schedules. This collaborative approach ensures we select and apply the best e9 Treatment Solution that will deliver optimal performance and longevity for each client's scenario.

e9 Treatments' proprietary technologies, patented processes and extensive industry experience ensure effective treatment application, even to equipment with complex geometries.

Our Treatment Services are easily adopted into your operations. We offer Treatment Services for new and used equipment at e9 Treatment facilities, as well as onsite at your location.

GETTING STARTED

Make e9 Treatments part of your new install and preventive maintenance programs today! Whatever industry you operate in, e9 treated industrial assets offer significantly improved uptime, accuracy and ROI when compared to untreated parts.

Call **210-742-1051** to get started. We work with fabricators and local service companies, OEMs, distributors and end users. e9 personnel will handle logistics and scheduling to ensure that you receive the best solution for your needs and great service!

The information and recommendations relating to the application and end-use of these products are given in good faith based on current knowledge and experience with the products applied under normal conditions. In practice, differences in materials, substrates and actual site conditions are such that no warranty in respect to the merchantability or fitness of these products for a particular purpose, nor any liability arising out of any legal relationship whatsoever can be inferred from this information.

e9 Treatments, Inc. products are afforded patent protection in the oil & gas industry under patents: 9476754, 9688926, 10059892, 10150924, 10934497, 10844299, 10822559