



Let us demonstrate our solid products, operational excellence, experienced application engineering, responsive customer support before and after the sale, rapid manufacturing and delivery, low life-cycle cost, the best warranties in the industry, and long-term emission compliance.

Catalyst Chemical Washing Services

A precious metal catalyst is a costly investment with long-term value. Like any piece of equipment, a catalytic system benefits from routine inspection and maintenance. As an OEM catalyst developer and manufacturer, EmeraChem offers complete catalyst lifecycle services to help you maximize the value of your investment. EmeraChem can help you set up a catalyst monitoring program that includes performance testing, laboratory evaluations, washing and regeneration. At the end of its service life, EmeraChem will recover the precious metal and apply it to your replacement catalyst.

Catalyst Chemical Washing & Regeneration:

A combustion exhaust stream is not a pristine environment. Normal and abnormal engine operation exposes the catalyst to chemical compounds that affect the catalyst's surface and its active ingredients. These contaminants hinder catalyst performance through a number of mechanisms and cause catalyst performance to degrade over time. Rather than replacing the catalyst prematurely, chemical washing is used to remove these contaminants, regenerate the catalyst surface, and restore catalytic activity and performance.

- All catalyst washing systems are NOT alike!
- EmeraChem's Catalyst Washing System is a proven, effective performance regeneration process - know-how from operating a catalyst chemical manufacturing plant for over 20 years.
- Utilizes **modern chemical processing equipment**, methods, and procedures specified by EmeraChem chemical engineers and used daily in our chemical processing facility.
- EmeraChem chemists specified the **chemical solutions** as most compatible with the catalyst formulations and most effective at removing a variety of chemical contaminants and ash.
- The most effective catalyst element cleaning method involves **four steps**, in a specific sequence, for specific periods of time. Each step is designed to remove specific contaminants and the sequence is critical.
- A key advantage to EmeraChem's catalyst washing process is the use of **fresh chemical solutions** for each batch of catalysts. Our customers are assured their catalyst won't become contaminated by the masking and poisoning agents from someone else's catalyst.
- EmeraChem uses **chemical recirculation** pumps and a special manifold to continuously flush the solutions through the cells of the element for deep cleaning. This is an effective way to release contaminants from the catalyst, particularly from within the interior surfaces and catalyst pores.
- Carried out by **trained chemical technicians** using proper health and safety protocols. Spent chemical solutions are neutralized and disposed of in accordance with environmental discharge permits.