



Zirconium Pretreatments FILTRATION SYSTEM

for Powder coat, E-coat,
and Liquid coat systems



This is a chemical manufacturer recommended filtration system for use on a zirconium pretreatment process for powder coat, e-coat, and liquid coat systems. While going through this cleaning and preparation process, carryover dirt, grease, and oil can collect in the zirconium bath if the product is not rinsed correctly. Not only that, but as parts enter the zirconium bath, they can cause a reaction generating a fungus that compiles into that bath along with other metal byproducts, specifically iron. This has been known to create an unsightly foul odor, as well as corrosion to the metal. If not filtered, the bath turns cloudy and yellow and iron becomes a poison for the bath eventually forcing the chemical content unusable. The zirconium then has to be dumped prematurely because of this. However, the AIS Filtration System helps to remove these bath pollutants creating an overall cleaner zirconium bath treatment experience.

The AIS Filtration was designed to achieve the most efficient pretreatment process possible. This filter works to remove contaminants from the zirconium bath with a recycling process that makes use of a time-controlled automatic backflush operation. Because of this backflush operation, we are able to continue use of this filter for years on end without any extreme maintenance as opposed to a costly bag filter that requires changing multiple times a week. This results in a huge savings in chemicals, labor, waste, etc. With this process we are able to expand the lifetime of these expensive chemicals and also create a simple use, low-maintenance, and environmentally friendly solution to an otherwise destructive and messy process.



KEY FUNCTIONS

- Removes iron
- Removes fungus spores
- Removes oil, dirt, and grease
- Extended bath life up to 25% longer
- Cleaner bath and parts
- Improved coating appearance
- Reduces Chemical Cost
- Reduces Disposal Cost



Chemical and Costs Savings



Cleaner Bath/ Better Coated Parts



Less Maintenance



CUSTOMER RESPONSE'S

"When the filter system is in operation it removes the slime-orange appearance of the tank solution. The coated parts are much better and final test results are better."

DO YOU FEEL THE FILTER EXTENDS THE LIFE OF THE BATH?

- "Yes, I believe that the filter extends the bath life. Our chemical supplier swears by it."
- "It definitely does make the bath a lot cleaner for a longer period of time."

ARE THERE ANY POSITIVES YOU SEE FROM USING THIS VS A DISPOSABLE BAG FILTER?

- "Your filter is hands down less maintenance and easier to use. We've been running the filtration for 2 years and still haven't had to change out the media in the filter."
- "The AIS filtration system is better than a disposable bag filter. The bag filters are awful, messy, and expensive especially when you are changing it 2-3 times in a week."

- FULLY CUSTOMIZABLE AND ENGINEERED TO YOUR SPECIFIC NEEDS
- EASY TO INSTALL AND SIMPLE TO OPERATE
- FILTERS 40-80 GALLONS/MIN. DEPENDING ON CHOSEN TANK SIZE

- CORROSION RESISTANT STAINLESS STEEL AND PVC BUILD
- HEAVY DUTY 3 WAY AUTOMATIC VALVES
- PLC CONTROLS W/ TOUCH SCREEN INTERFACE
- SKID-MOUNTED FOR EASY SHIPPING AND INSTALLATIONS

**CONTACT US
FOR A VISIT!**

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**COME VISIT AND TOUR OUR 225,000 SQFT FACILITY
TO SEE OUR ZIRCONIUM
PRETREATMENT FILTER IN
FULL OPERATION.**

**The AIS skid-mounted filtration
system ships assembled with easy
installation instructions.**

**This is the best quality built, affordable filtra-
tion system on the market.**