

## SIMPLIFYING ALUMINUM FILTRATION

TOTAL ENGINEERED FILTRATION SOLUTIONS

# THE MICRONICS DIFFERENCE

The Micronics Engineered Filtration Group and trusted brands NFM and Filterfab, have a long legacy of providing total engineered filtration solutions for demanding industries such as aluminum. We have the technology and expertise to meet your filtration needs, both dry and wet.

Micronics' commitment includes:

- Our global team is experienced in solving your filtration challenges.
- We have manufacturing plants in North America and in the UK located near your business for fast, efficient service.
- Our products are designed to increase production and lower your cost of ownership.

Our team of experts stands ready to help you maximize manufacturing efficiencies and reduce downtime.

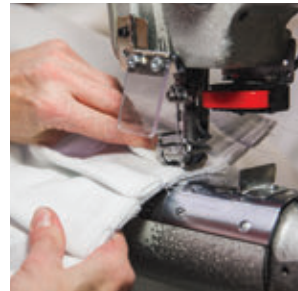
## FILTRATION SOLUTIONS

- **Dust Collection Solutions** including filter media, parts, and service
- **Filter Press Solutions** including cloth, replacement parts, and service
- **Red Mud Filtration Solutions**
- **Filter Leaflets**
- **Rotary Drum Vacuum Filters** including media, parts, and service
- **Horizontal Belt Filters** including media, parts, and service
- **In-House Laboratory Services** - Wet and Dry Filtration

**The Micronics Engineered Filtration Group is the premier global company in the alumina and aluminum industries for all your filtration needs, wet and dry.**

### **VIBRAIR™ FILTER BAGS AND V-MAXX FOR VIBRAIR™**

Vibrair™ filter bags require exacting manufacturing techniques from skilled craftsmen and the most modern equipment to ensure the highest quality. Micronics' plant in Trois-Rivières, Quebec is equipped with the latest technology for making Vibrair™ filters that are used all over the world. Our people and experience make the difference that helps you maximize your system's performance and reduce downtime. Our technology and experience ensure you get consistent precise fit and performance. Our precision and quality are unequalled anywhere else in the world.



### **INTRODUCING V-MAXX FOR VIBRAIR™**

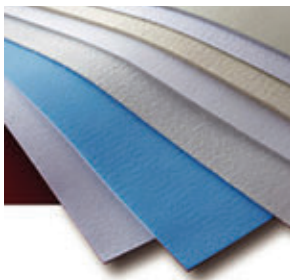
The Micronics Engineered Filtration Group - and trusted Filterfab brand - have engineered an upgrade to the standard Vibrair system that allows for up to 30% greater capacity without the high retrofit costs. This new design can be installed quickly with a minimum of downtime to upgrade your system and lower your cost of ownership. Vibrair has been the performance standard in dust collection for Primary Aluminum Dry Scrubbing plants all over the world. Let our filtration experts show you how easy it can be to maximize the performance of your existing system.



### **V-MAXX FOR VIBRAIR™ BENEFITS**

- Uses current system design
- Manufactured for both Gas Treatment Centers (GTC) and Fume Treatment Centers (FTC)
- Increases current cloth area by up to 30% for increased capacity
- Reduces current  $\Delta P$  levels
- Reduces gas stream velocity and emissions
- Increases current filter life
- Reduces energy consumption
- Reduces frequency of filter bag changeouts, minimizing downtime
- Reduces cost of ownership





### DUST COLLECTION SOLUTIONS

The Micronics Engineered Filtration Group has been providing leading dust collection technology solutions for the aluminum industry from the beginning. Our textile engineering team has developed fabrics that lead the industry to meet exacting emissions standards, lowering overall cost of ownership. We can custom-design dust collector bags and cartridges to optimize the performance of your baghouse equipment.

Our filtration experts can find innovative fabric solutions – an engineered felt product or pleated filter element for retrofits or woven fabrics for shaker-style baghouses – to precisely meet your business needs and operating conditions. You can also count on us for a full line of high-quality, rugged cages to meet your pulse-jet baghouse needs.



### RED MUD PRESSURE FILTRATION SOLUTIONS FOR BAUXITE TAILINGS

Red Mud “Kelly” filter bags are designed for work in hot caustic environments, specifically Alumina red mud. These filters are used to remove bauxite tailings from the liquor stream in the aluminum process. Micronics has been a leader in Kelly bag fabrics since these filters were put into service; our fabrics and service are unmatched in the industry.

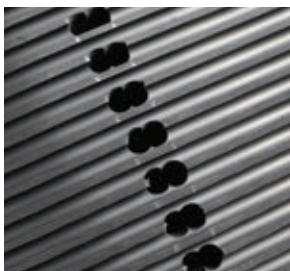
Micronics also has a broad range of experience with filter presses and filter press cloth for aluminum processing, particularly for wastewater treatment.



### ROTARY DRUM VACUUM FILTERS

A continuous filter used to separate liquids from solids, our NFM® Rotary Drum Vacuum Filters have low-to-medium production rates with medium filterability. They are used with medium to low resistance filter cakes.

The Micronics Engineered Filtration Group also sells engineered fabric solutions for RDVF to maximize production and parts for Rotary Drum Vacuum Filters from nozzles and valve wear plates to spray bars and worm gears to keep your equipment downtime to a minimum.



### HORIZONTAL BELT FILTERS

The Micronics Engineered Filtration Group supplies the continuous filter belt for many horizontal belt filters. We customize the synthetic fabric of the belt to fit the distinct needs of the aluminum industry.





Whether for dust collection or liquid-solid separation, clients can trust the Micronics Engineered Filtration Group and its family of trusted brands – Micronics, AFT, NFM, Filterfab, SFM, CPE, and UPC. With manufacturing facilities in Canada, USA, the UK, and Mexico. We are your Total Engineered Filtration Solutions providers. We have a long-standing history of serving a host of demanding industries including alumina, aluminum, mining/mineral processing, steel foundries, cement plants, asphalt plants, chemical manufacturers, food processors and recycling for the growing circular economy and our planet.

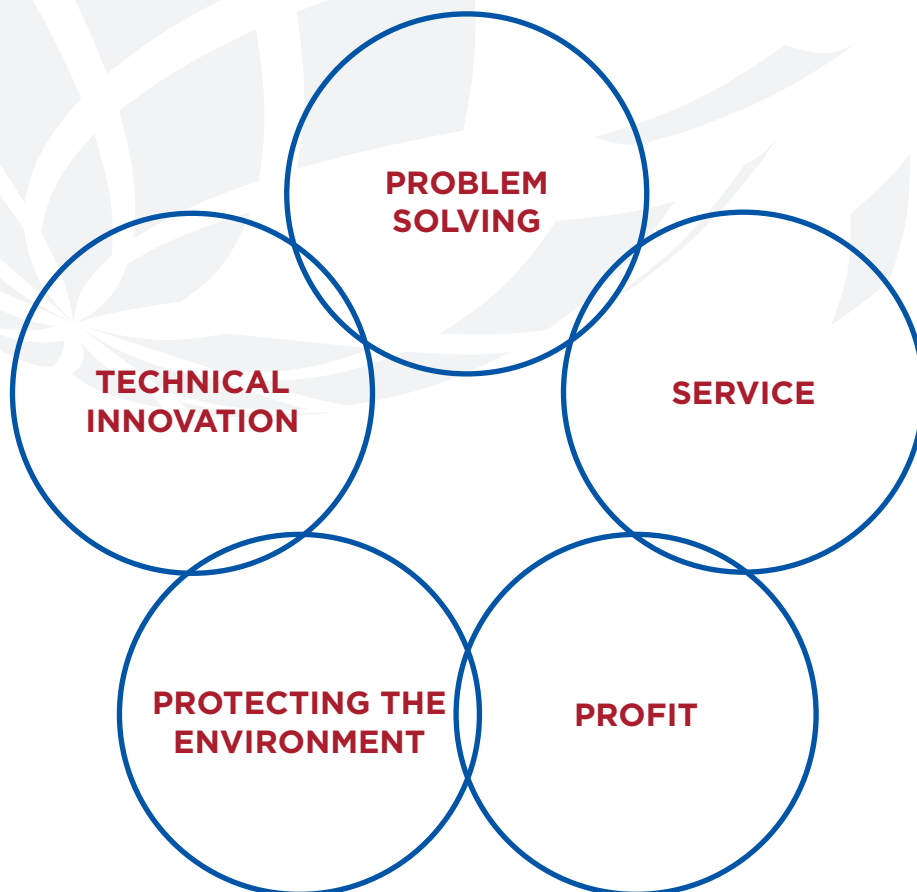
With the Micronics Engineered Filtration Group, you get the best filter media, equipment, services, and spare parts all from one company. Our mission is to consistently deliver filtration expertise & innovative problem-solving that will help you optimize your process, improve the efficiency of your operation, and propel your business forward.

For a complete list of our global manufacturing facilities, please visit our website at [www.micronicsinc.com](http://www.micronicsinc.com)

# MICRONICS

## ENGINEERED FILTRATION GROUP

### PARTNERS IN:



MICRONICS

SFM



AFT



NFM

Filterfab