
SUCCESS STORY

Food & Beverage Applications

Optimising Sugar Production Through Proven Filtration Expertise

Amafilter® partnered with KALL Ingredients to supply filtration systems for a greenfield corn syrup production facility.



amafilter®
Filtration Group®



SUCCESS STORY

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MAKING THE WORLD
SAFER, HEALTHIER &
MORE PRODUCTIVE®

Customer: KALL Ingredients Kft.

Industry: Food & Beverages

Application: Sugar

Products: Versis® Pressure Leaf Filters, AFH Bag Filter Housings & MBH Multi-Bag Filter Housings.

BACKGROUND

KALL Ingredients Ltd., based in Tiszapüspöki, Hungary, is part of Opus Global Nyrt.'s food division. The company is a 100% Hungarian-owned maize processing business and a major purchaser of high-quality, GMO-free Hungarian maize. From this raw material, KALL produces high value-added food and feed products, including sugar products, alcohol, and feed materials used in the pharmaceutical and food industries. Operating since around 2015, the plant processes nearly half a million tonnes of maize annually, with export revenue accounting for more than 50% of total sales. The project represented a major greenfield investment in an economically developing region of Hungary, with a clear focus on efficiency, quality, and long-term operational reliability.

THE CHALLENGE

Amafilter® became involved in the project during the engineering phase of a completely new greenfield plant. Initial contact was established through Tisza TK Engineering, a company formed specifically for this project. Several members of the engineering team had previous experience in the Hungarian corn syrup industry, where Amafilter® had built a strong reputation and trusted relationships.

As this was a brand-new facility, there was no existing equipment to upgrade or replace. The challenge was to design and supply a reliable, large-scale filtration solution capable of supporting continuous syrup production from sweetcorn, ensuring high product clarity, operational stability, and long service life from day one.

Competition was strong and to secure the project, Amafilter® needed to combine technical credibility, proven references in corn syrup filtration, and a commercially competitive offer.

THE SOLUTION

Amafilter® supplied a comprehensive filtration package consisting of:

- 21 Versis® pressure leaf filter systems.
- 24 AFH bag filter housings.
- 59 MBH multi-bag filter housings.

These systems are proven, industry-standard solutions for corn syrup filtration and were selected to ensure optimal performance across the different stages of the syrup purification process.

The recommendation was based on Amafilter®'s extensive experience in sugar applications. Our competitive edge lay in:

- Proven performance in similar syrup applications.
- Strong industry references and trust.
- Competitive pricing aligned with project expectations.
- Responsive sales engagement during the project development phase.

Installation of the entire filtration systems offering was carried out as part of the commissioning.

THE RESULTS

The installed filtration systems form a critical part of KALL Ingredients' syrup production process, supporting:

- High filtration efficiency for corn-based syrups.
- Reliable continuous operation in a large-scale industrial environment.
- Stable product quality for food, pharmaceutical, and feed markets.
- Reduced operational risk through robust, proven filter technology.

By integrating Amafilter® pressure filter leaf technology and know-how into its core process, KALL Ingredients secured a dependable filtration solution aligned with its ambition to become a leading Hungarian maize processor with strong export performance.

Overall, Amafilter® is proud to have supplied the following to the KALL site:

- MBH4-180L-4F-DNC: ~60 units
- AFH-180L-3F-M: ~24 units
- Versis® 1800W-80/1810-316L: 16 units
- Versis® 1000W-24/1500-316L: 5 units

OUR PRODUCT

The Versis® Pressure Filter Leaf System - Features and Benefits:

- Proven technology.
- Fully automated, ensures safety.
- Small footprint required, maximized space.
- Easy access to the filter leaves for removal of the cake
- Full automation means limited maintenance and lower operational costs.
- A closed filtration system for complete safety when in use.
- Short regeneration time between filtration cycles, reducing operating costs as the filter can filtrate for longer periods without disruptions.
- Easy to clean pressure filter leaves.
- No rotating parts, keeping maintenance to minimum.
- Reinforced pressure filter leaves provide extended lifetime.
- Specifically designed self sealing cover gaskets for a perfect sealing solution and maximum safety.

