

CASE STUDY:

INNOVATIVE FILTRATION SOLUTIONS FOR VITAMIN E PRODUCTION

In October 2024, a leading manufacturer of specialty ingredients, including natural vitamin E, faced a critical challenge in their production process. The company, a major player in the chemical manufacturing industry, encountered significant delays in obtaining their usual filtration products for vitamin E oil processing.

The Challenge

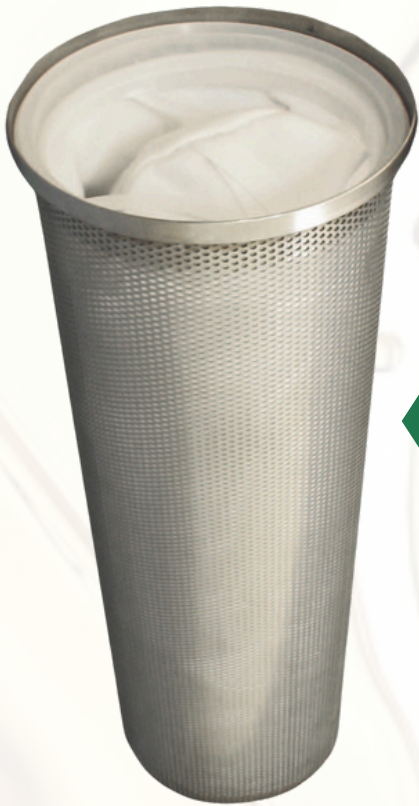
The manufacturer had been relying on 3M DF series filters, specifically models DFG025PP2R, DFG.5PP2R, DFG001PP2R, DFG010PP2R, and DFG005PP2R, for their vitamin E oil filtration needs. However, supply chain issues led to extended lead times, threatening to disrupt their production schedule. The company needed a rapid solution to maintain their output and meet customer demands.



Strainrite's Solution

Working through their distributor, Semler, Strainrite Companies quickly assessed the situation and proposed a tailored solution:

1. **AA Bags:** Strainrite offered their AA (Added Area) bags as a direct replacement for the 3M DF series filters. The SP1P2P-AAC model was expedited to meet the immediate need.



AA Filter Bags

DID YOU KNOW?

Added Area AA bags provide 65% more surface area and frequently provide a vastly disproportionate benefit – life advantages of 4-5 x have been reported (actual benefit for a given application must be assessed on a case-by-case basis).

2. **Replacement Baskets with AA Inserts:** Strainrite not only provided replacement filter bags but also offered innovative basket solutions with AA inserts. These inserts were designed for easier installation and removal of the AA bags, improving operational efficiency.

IMPLEMENTATION AND RESULTS

The customer rapidly adopted Strainrite's solutions:

1.Immediate Production Continuity:

By expediting the SP1P2P-AAC bags, the manufacturer was able to maintain production without interruption.

2.Comprehensive Order:

Following the success of the initial solution, the customer placed a large order for AA bags across all required micron ratings.

3.Phased Basket Replacement:

The company replaced two filter baskets immediately and committed to gradually replacing the remaining baskets across their plant.

4.Improved Operational Efficiency:

Plant operators reported that Strainrite's bags and AA inserts significantly simplified the filter changing process, reducing downtime and improving worker satisfaction.



KEY BENEFITS

1.Supply Chain Resilience:

Strainrite's ability to quickly provide alternative solutions mitigated the risk of production delays.

2.Enhanced Filtration Performance:

The AA bags potentially offered longer filter life and improved filtration efficiency.

3.Ease of Use:

The new basket design with AA inserts streamlined maintenance procedures, potentially reducing labor costs and minimizing the risk of contamination during filter changes.

4.Customized Support:

Strainrite's responsive approach, working through their distributor, demonstrated their commitment to solving customer-specific challenges.



CONCLUSION:

This case study highlights Strainrite Companies' ability to provide rapid, innovative filtration solutions in critical situations. By offering a comprehensive package of AA bags and custom basket solutions, Strainrite not only solved an immediate supply chain issue but also introduced long-term improvements to the customer's filtration processes. The success of this intervention underscores Strainrite's position as a leading provider of advanced filtration technologies in the specialty chemical manufacturing sector.

