

THE CHALLENGE

A global specialty chemicals manufacturer relied on manual filtration to process calcium sulfonate grease using bag housings and 600µm polyester bags. This approach required frequent bag changes, generating high maintenance, downtime, and disposable waste. Occasionally, bags failed under high backpressure, allowing unfiltered grease to bypass the system, risking downstream equipment damage and inconsistent product quality.

THE SOLUTION

John Brooks' application expert recommended an Eaton DCF-1600 self-cleaning filter with 3" piping and a steam-jacketed housing to handle viscous grease and prevent thickening. A trial rental unit allowed the customer to test performance before full installation. The self-cleaning system eliminated bag disposal, handled high backpressure, and required minimal maintenance, delivering consistent, clean output.

THE RESULTS

- **Increased Productivity & Efficiency:** Faster, uninterrupted filtration.
- **Reduced Downtime:** Self-cleaning design cuts maintenance.
- **Lower Labour & Maintenance Costs:** No more bag handling or disposal.
- **Improved Product Quality:** Consistently cleans downstream grease.

For more information on filtration solutions for your unique industrial operation, [contact John Brooks](#)



Case Study

Self-Cleaning Filter Enhances Efficiency and Protects Equipment

Technology Utilized:

- [Eaton DCF-1600 Self-Cleaning Filter](#)
- Steam-Jacketed Housing

How It Worked:

- The DCF-1600 captures solids on a filter screen while a spring-loaded cleaning disc removes debris without stopping the process.
- Steam-jacketed housing keeps grease fluid for smooth filtering.
- Larger piping ensures efficient flow for viscous grease.

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