

High Viscous Oil Food Processing

Customer:	Central European Food Processing Plant
Application:	Food and Beverage
Products:	Polyfil™, Klearfil™, Stainless Steel Housing.
Primary Motive:	Process optimisation
Location:	Central Europe
Project Date:	2020
Division:	New Milton, UK



Customer Overview:

A Central European food manufacturer, part of one of the world's largest snack companies. Established in the 19th century, the plant produces various products for the food industry.

Customer's Requirement:

The customer required a compact solution to filter refined oil down to 0.5 µm. The highly viscous liquid (30 cSt) contained a range of variably sized particles.

FDA certificates and high-quality products were essential for all items (housings and cartridges) and their accessories (seals, gaskets and end caps).

Porvair's Solution:

Porvair supplied a 4-filter train, starting with a Klearfil™ (10µm), followed by three Polyfil™ cartridges 5µm - 1µm - 0.5µm.

Stainless Steel housings AISI 316L were also installed. These were fully compliant with Food and Beverage standards and FDA requirements.

Project Overview:

The customer requested a high-performance solution for the filtration of heavy viscous oils, with the following requirements:

- the removal of a wide range of particle sizes
- fine filtration
- space limitation
- increase filter lifetime
- compliance with FDA certification.

The combination of the Klearfil™ and Polyfil™ cartridges provided excellent results, exceeding the customer's requirements.

Other Opportunities:

Food and beverage manufacturers.

High viscous oil filtration in Chemical Process

