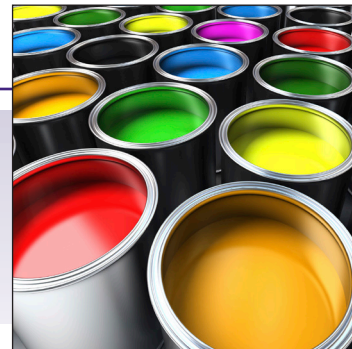




Bulk Ink Manufacture

Disposable Filters, Egypt

Industry Sector:	Inkjet
Application:	Bulk Ink Manufacture
Products:	Capsule Filters, Cartridge Filters, SS Housings
Primary Motive:	New Product Development
Location:	Egypt
Project Date:	June 2016



Customer Overview:

Our customer was an offset printing ink manufacturer, supplying inks to the North African and Egyptian markets. They produce solvent based inks for Rotogravure and Flexographic printing machines.

Their inks are used to print on PET, PE, OPP, PVC films, aluminium foil and paper for food, pharmaceuticals, detergents, confectionary and cosmetics packaging. The customer is a member of a group of companies serving the flexible packaging sector with a strong presence in Africa, Europe and the Gulf, and are newly exporting to Turkey and Ukraine.

Customer's Problem:

As part of their product expansion for digital inks, advice and equipment was required to set up a digital ink filtration system as part of their new digital ink manufacturing line.

The customer had stringent requirements for a 'clean filtration system'; free from the process, product and environment contamination ranging from fibres, gels, agglomerates and oversized pigments.

By developing a lab scale process, the customer was able to extrapolate the process to large-scale production.

Porvair Solution:

Porvair provided lab scale filters (Microcap™ capsule filters with 5 and 10µm Klearfil™ and 1µm Polyfil™) to simulate full scale production performance.

The scaled-up process was a two stage system comprising of either a 1 or 5µm Klearfil™ or Polyfil™ pre-filter stage and final polishing Polyfil™ 1µm stage.

The pressure filter vessels recommended were 316L SS to ensure safe and thorough cleaning after every batch. All seals and critical components ensured compatibility with the solvent based inks.

Project Overview:

The key function was to offer the identical features in simple lab-scale filters, and to offer the stainless steel housing for the 10" filter cartridges.

The customer was driven by our knowledge, therefore the successful implementation of the system has helped to create a strong business relationship.

Product and System Information:

- Microcap™ main system capsule filters
- Klearfil™ 10" cartridges, 5 and 10µm
- Polyfil™ 10" cartridges, 1µm
- Single element stainless steel housings (type 2110)

Other Opportunities:

The customer is a key organisation within the mature ink technologies sector (flexo, gravure, coating) in the North African market, with a small reach in to Eastern Europe. There is a strong possibility that other filter opportunities are available within their facility.