

# Absolute.Za Improves Productivity at an Ink Jet Dyes Manufacturer

## Challenge

A leading manufacturer of ink jet dyes recently trialed Absolute.Za in their manufacturing process. The company was looking for improved productivity, faster processing and lower total operating cost, while maintaining their customers' quality requirements. The manufacturing process was a batch operation, which included over 350 different ink dye formulations. Organic solvents used were primarily ketones. Absolute filtration at 0.5 micron was required for ink quality. The company had been using another brand of absolute filters for years, as protection for downstream membrane products in these processes.

## Solution

The GE Water & Process Technologies distributor presented the Absolute.Za product line as part of their ongoing customer "Technology Upgrade Program." The customer was interested in both the potential added performance factors and costs savings. The company agreed to trial Absolute.Za 0.5 micron filters. Using their current batch size and process conditions they conducted a test using the Absolute.Za filters. As this was a validated process, monitoring equipment for filtration efficiency and pressure drop was used throughout the batch run. The batch process was initiated with a standard ink jet dye product.

## Results

The process validation test with the Absolute.Za was a complete success. Production and purchasing management viewed the performance and cost savings of switching to the Absolute.Za as an "easy decision," and initiated the required steps to implement its use.

With Absolute.Za, the pressure drop was lower throughout the batch runs, and provided superior protection for the downstream membranes. This resulted in faster batch processing times, and therefore increased productivity.

## Absolute.Za Background

Absolute.Za depth filters provide unmatched performance for the chemical process industries. Z.Plex technology has been used to create a depth filter, which has absolute filtration (99.9% efficiency at the rated micron) and long life. This combination delivers the lowest total operating cost for the most demanding applications in the chemical process industries. Some of the features and benefits of Absolute.Za are:

- Z.Plex Filtration Technology
  - High particle holding capacity
  - Low pressure drop
  - Up to twice the life of conventional absolute filters
- Absolute filtration efficiency (99.9%)
- All polypropylene construction for exceptional purity
- High chemical resistance
- Applications over a wide pH range
- High strength polypropylene core
- FDA, NSF certified



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