

# ChemStream's high performance inkjet inks

## THREE IN ONE:

- ✓ Fast prototype iterations
- ✓ Modular testrig approach
- ✓ System integrated philosophy



**CHEMSTREAM**  
SUSTAINABLE CHEMISTRY





## High performance inkjet ink development

Inkjet ink takes a central place in the digital printing process because it should meet both the requirements of the (integrated) printing system as those of the end user application. It means that the ink design will be a compromise between optimal system performance and optimal fit for use. To reach the highest performance quality in the most efficient way, ChemStream is using a modular inkjet printing (and curing) device to test different ink prototypes by successive iteration cycles. The best guarantee to reach the requirements of the customized functional inks is to start the ink development and formulation process together with the evaluation of the other system components (including print head, drying /curing, delivery system, ...) during the feasibility phase.

### THREE IN ONE:

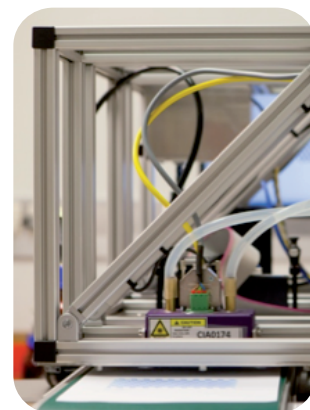
- ✓ **Fast prototype iterations:** ink carrier, nano-dispersions and dispersants development from design to prototype scale.
- ✓ **Modular testrig approach:** interchangeable set-up for different types of heads and driver electronics for studying jetting performance and dot placement.
- ✓ **System integrated philosophy:** process research with respect to print & cure speed, pinning, ink media interactions.

### FOCUS

- ✓ **Inks:** waterborne and radiation curable inks with dedicated functionalities
- ✓ **Nano-dispersions:** high performance nano-sized dispersions stabilized with dedicated polymeric dispersants
- ✓ **Heads:** drop on demand, high through put, piezo print heads: Xaar, Konica-Minolta, Toshiba tec, Kyocera, Seiko, Dimatix, ...

### MAIN FEATURES

- ✓ Short development times
- ✓ Customized approach
- ✓ Low investment level during feasibility phase



ChemStream, an innovative chemical R&D company, is specialized in translating material problems in sustainable formulations with focus on high performing nano-dispersions, functional coatings and inkjet inks. The R&D core team has more than 20 years experience in application driven and customized product development. ChemStream has its own lab facilities for chemical synthesis, formulating and characterizing from design to end user product.