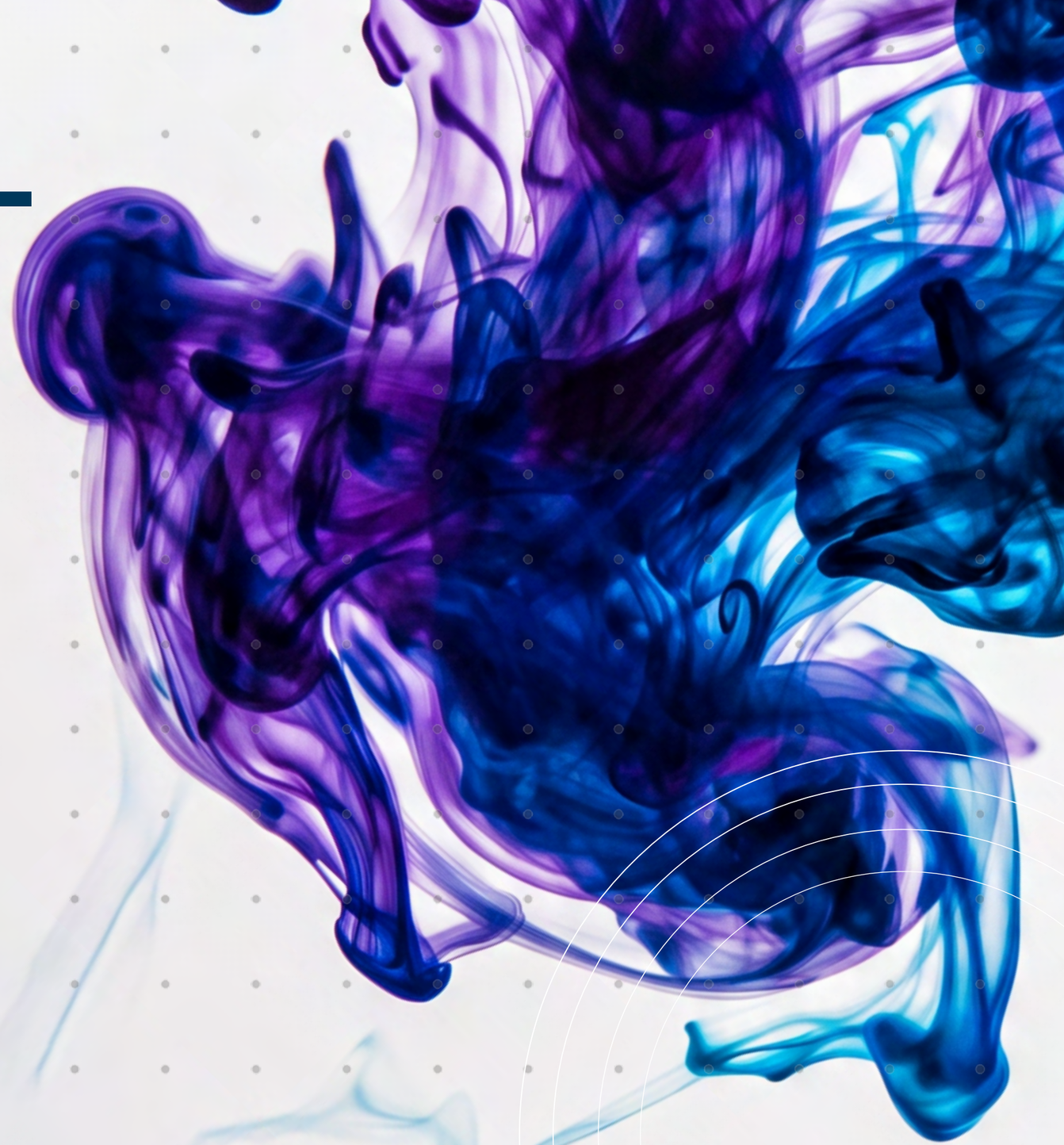
INKJET & DIGITAL

Where Ink Becomes Performance.

Digital chemistry designed for every stage of ink formulation and application.



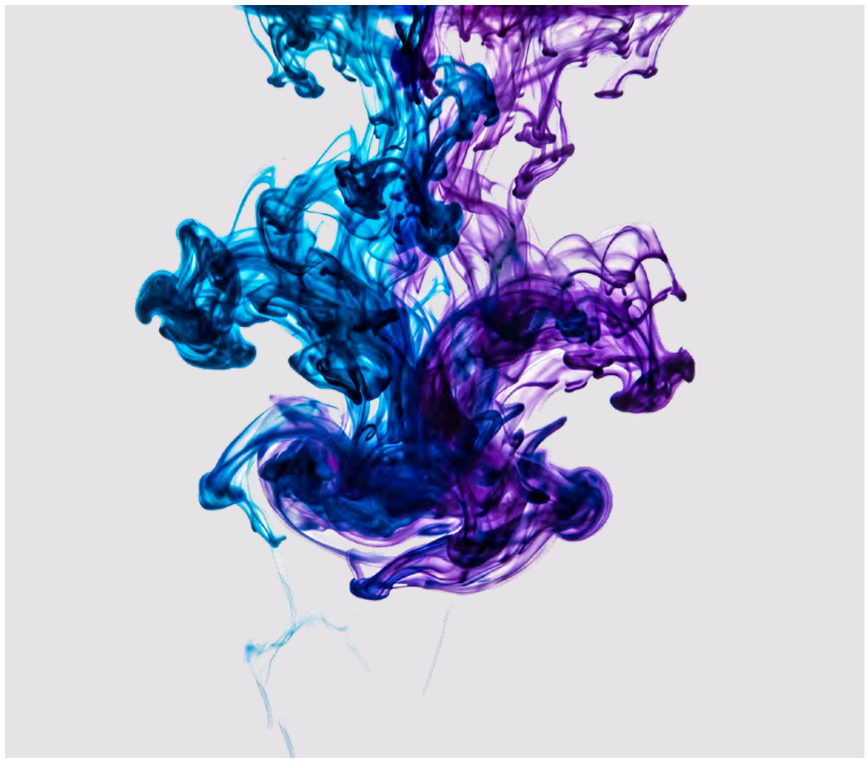
Lamberti ceramics

Chemical Additives for Inkjet & Digital Decoration

OUR APPROACH

Digital decoration has transformed ceramic manufacturing, unlocking unprecedented design freedom while improving production efficiency and reducing waste. At the core of this evolution lies ink chemistry, where pigment dispersion, viscosity control and surface tension determine printing quality, reliability and long-term stability.

By combining expertise in oleochemistry, acrylic polymers and polyurethane technologies, Lamberti offers a comprehensive portfolio of super-dispersants, grinding media, solvents and functional additives for the development of inkjet inks and the digital application of pigments, glazes and decorative effects in both solvent and water-based systems.



01 | SUPER-DISPERSANTS & SOLVENTS

Super-Dispersants for Inkjet Inks (FLUIJET®)

FLUIJET® is Lamberti's family of polymeric super-dispersants specifically developed for pigment grinding. It significantly reduces viscosity and grinding time while improving the stability of pigment and raw material suspensions in both solvent and water-based inkjet inks.

PRODUCT PORTFOLIO

Series	Application	Key Benefits	Functional Groups	Technology
FLUIJET®	Non-polar solvent-based systems	• Significant viscosity reduction • Outstanding dispersing efficiency • Excellent suspension stability	Non-ionic polymer	Oleochemical technology
FLUIJET® W	Water-based and polar solvent inks	• High Zeta potential for superior dispersion stability • Excellent viscosity reduction • Optimised pigment anchoring	Multiple anchoring groups (anionic, non-ionic and aromatic)	Hybrid acrylic and oleochemical technology
FLUIJET® G	Glass inkjet systems	• Superior dispersion in polar solvents • No residue after glass firing	Polyurethane-modified polymer	Polyurethane technology

Solvents & Grinding Media for Inkjet Inks (PRINTOJET®)

The PRINTOJET® range has been developed for grinding ceramic inorganic pigments down to sub-micron particle size, enabling the formulation of high-performance inkjet inks with or without resin. PRINTOJET® media provide extremely low viscosity while ensuring excellent shelf life and outstanding resistance to pigment sedimentation and agglomeration.

PRINTOJET®

Grinding solvent and medium for inorganic pigments and ceramic glazes down to sub-micron particle size.

PRINTOJET® LE

Polar solvent specifically developed to reduce odour emissions while maintaining full printhead compatibility and printing performance.

PRINTOJET® W

Water-based grinding medium for digital inkjet applications.

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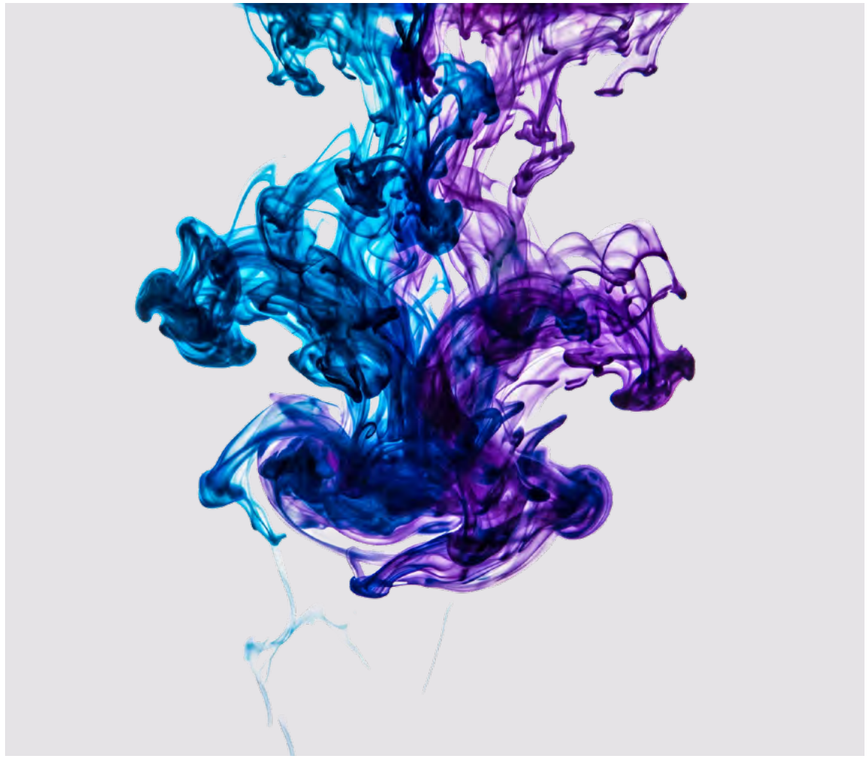

02 | RHEOLOGY & SURFACE CONTROL

VISCOJET®

Rheology modifiers introduced during ink preparation and selected according to solvent compatibility. They can also be used as dilution media after pigment concentrate grinding to achieve the target viscosity required for optimal inkjet performance.

TENSIOJET®

Family of specialty surfactants developed to optimise surface tension while providing levelling, defoaming and anti-water-repellency properties. TENSIOJET® additives help eliminate common printing defects such as water-repellency and reduce water evaporation in production lines equipped with digital decoration systems.

03 | DIGITAL GLAZING

PRINTOJET® S

Medium specifically developed for the digital application of water-based glazes and engobes. It delivers the optimum balance of surface tension, rheology, binding performance and lubrication, ensuring excellent levelling, homogeneous surface appearance, stable production and reduced material waste.

RESIJET®

Binder additives specifically designed to support the Inkjet printing of ceramic Inkjet glue. Used together with PRINTOJET® and FLUIJET®, they contribute to defect-free inks during both printing and storage, improving process reliability and long-term stability.

Detailed technical data sheets for all the products
Featured in this brochure are available at

ceramics.lamberti.com

For additional information, please contact our team directly.

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