INDUSTRIAL INKJET / PRODUCT GUIDE

Ink and Consumables Portfolio

Choose inks, cleaners and printhead wipes for the material and process

Select Ink for the Printhead, Substrate and Production Process

PRODUCT CATALOGUE / 2026.09

01 / Product range

From ink to routine maintenance consumables

Includes water-based, oil-based and UV-curable inks, plus compatible cleaning agents and printhead wipes.

100+ product varieties

Multiple inks are available for different printheads, substrates, colors and post-processing conditions. Confirm specific models and compatibility from product information and print samples.

01 / INK

Printing inks

Water-based, oil-based and UV-curable types. Select according to printhead and substrate.

02 / CLEANER

Compatible cleaning agents

Select for the ink system and equipment maintenance procedure. Do not mix types.

03 / WIPER

Printhead wipes

For controlled wiping and maintenance, with attention to cleanliness and material compatibility.

04 / SAMPLE

Application testing

Test adhesion, clarity and durability on actual materials under real process conditions.

02 / Ink systems

Three ink types for different production conditions

Ink type is first determined by printhead compatibility, substrate surface and on-site process.

Water-Based Ink	For validated substrates such as paper. Check absorption, drying, optical density and water resistance.
Oil-Based Ink	For compatible printhead and substrate combinations. Check wetting, adhesion, drying and post-processing conditions.
UV-Curable Ink	The printed image is cured using a compatible UV system. Match the light source, energy and substrate.

A substrate may support more than one ink type

Results depend on material formulation, surface treatment, printhead, printing parameters and drying or curing conditions. Define finished-product requirements, then choose ink through sample testing.

03 / Color selection

Standard and custom colors

Select a color within the available ink system and check opacity, hue and appearance after curing or drying.

01 / COLOUR

Black

Check darkness, edge sharpness and code-scanning contrast.

02 / COLOUR

White

Check opacity, pigment settling and substrate adhesion.

03 / COLOUR

Yellow / blue / red

Select according to substrate color, identification requirements and color matching.

04 / COLOUR

Green / royal blue / purple

Special colors can be matched or customized for the application.

Checks for custom colors

Provide a target color sample, substrate, image coverage and viewing light. Confirm color on the actual material after the relevant drying or curing process. Different ink systems and base colors may look different.

04 / Substrate compatibility

Select ink for the substrate surface

Plastics, films, paper, metal and glass have different surface conditions. Test-print each material separately.

Paper and Paper Products	Observe absorption, penetration, spreading and edge definition after drying.
Plastic surfaces	Verify material, surface energy, mold-release agents and pretreatment conditions.
Film Substrates	Check coating, tension, adhesion and abrasion after rewinding.
Metal surface	Check oil contamination, surface treatment, adhesion and subsequent processing.
Glass materials	Use an ink formulated for glass and validate adhesion and durability.

“Suitable for a substrate type” does not mean every formulation or surface treatment in that type. Use actual substrate samples for final selection.

05 / Process requirements

Include post-processing in ink selection

Alcohol resistance, alcohol removability, boiling-water treatment and freezing are separate requirements. Match ink to the intended process.

01 / RESIST

Alcohol-wipe resistance

For marks that must withstand specified alcohol wiping. Check concentration, number of wipes and pressure.

02 / REMOVE

Removable with alcohol

For temporary marks intended to be removed with alcohol. Select separately from wipe-resistant applications.

03 / BOIL

Boiling-water process

Select and verify by temperature, duration and adhesion before and after treatment.

04 / FREEZE

Freezing conditions

Test at low temperature with condensation, packaging material and distribution conditions considered.

Performance depends on test conditions

Wipe resistance and removability are opposite selection goals. For any claim about water, alcohol, boiling or freezing, record the ink model, substrate, treatment and acceptance method. Do not apply it to the entire range.

06 / Compatible maintenance products

Include cleaning agents and wipes in the consumables plan

Printhead maintenance must achieve cleaning without using an agent incompatible with the ink or printhead materials.

Compatible Cleaner	Choose a cleaner for the specific water-based, oil-based or UV ink model and follow the equipment maintenance procedure.
Printhead wipes	Use suitable clean wiping materials to reduce lint and improper abrasion.
Ink Changeover	Confirm changeover, draining and cleaning procedures first. Different ink systems must not be mixed directly.
Shut-down maintenance	Plan cleaning or moist storage according to shutdown duration, ink properties and printhead requirements.

Confirm together at delivery

Document the ink model, matching cleaning agent, wiping material, cleaning steps, shutdown and restart methods. Follow the specific equipment and ink instructions.

07 / Selection and delivery

Confirm with samples on the actual material

Collect printhead, substrate, artwork, process and line conditions before specifying an ink and compatible consumables.

Printheads and Equipment	Printhead model, ink-supply configuration, operating temperature and line speed.
Materials and surfaces	Substrate grade, coating, treatment process and base color.
Color and Content	Target color sample, opacity requirements, code type and reading conditions.
Post-processing conditions	Wipe resistance, removability, boiling, freezing, curing and storage requirements.
On-site inspection and acceptance	Adhesion, clarity, durability and continuous-printing samples.

Product information

This brochure is an overview of the consumables range. “100+” describes the number of FHES product varieties. Confirm performance, colors and compatibility from model data and print-sample tests.

FHES

Product enquiries: 0574-87296000