

TIGITAL® Water-based Hybrid Ink

Series 147/1.0

Properties

Viscosity	35 °C	9 – 11 mPas
Thixotropy		-0.1 – 0.1 D/cm ²
Surface tension	25 °C	25 – 30 dyn/cm
Drying method	Warming (infrared, hot air) Followed by UV treatment	

Colors

- Series 147/11000 varnish
- Series 147/11200 yellow
- Series 147/11300 magenta
- Series 147/11400 cyan
- Series 147/11800 black

Shelf life

9 months for storage between 15 and 35 °C

Package sizes

- 1 l PE bottles (black)
- 5 l PE cubitainer

Recommended cleaning and flushing fluid

TIGER Flush 151/00007

Applications

TIGER Hybrid inks for single-pass printing are water-based systems that can be cured by using UV light treatment. They are designed for printing on absorbent and non-absorbent materials and consist of low-migration components. All ink components are specified in list A or B of the Swiss ordinance permitting the use of ink for food packaging provided the drying method is adapted accordingly.

The print layers are characterized by good adhesion to various substrates as well as good mechanical and chemical stability.

Printing and curing conditions

Depending on the type of printing head selected, the inks can be processed at temperatures up to 40 °C. Once the pinning step using UV-LED (1 watt) is completed, the ink must be dried with infrared radiation and/or hot air immediately after printing. In order to achieve complete cross-linking/curing, the process is finalized by UV curing (500 mJ/cm²).

Compatibility of materials

Compatible materials:

- PP
- PE (HD + LD)
- Stainless steel
- EPDM rubber
- PTFE, etc.

Incompatible materials:

- Any materials incompatible with water

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