



Altamira Design DP ink set

High-performance ink set for single-pass printing. Ink set targeted for printing on plastic foils and objects with very good adhesion.

Overview

The Altamira Design range of high-performance inks is targeted at the decoration market; It is also suitable for marking & coding and product printing.

The Altamira Design DP ink set is especially targeted at product decoration, and interior.

The Altamira Design DP ink set is a UV-curable inkjet ink set suitable for high-speed single-pass printing at speeds of 50 m/min and higher.

The 4-color ink set (CMYK) is designed for very good adhesion on many different types of substrates, especially polymeric substrates such as PP, PVC, PET. For many of these substrates, pre-treatment (corona, plasma or flame) will have a positive effect on adhesion.

Key benefits

- Excellent adhesion on a broad range of substrates, especially plastics
- Extreme high jetting performance and reliability
- Long ink shelf life (18 months from production date)
- Wide color gamut

Field of use

Altamira Design DP ink set is suitable for single pass printing with piezo printheads with requirement for standard inkjet viscosity, including printheads from Konica Minolta, Xaar, Ricoh, Toshiba TEC, Fujifilm Dimatix, Seiko.

Functional specifications

- Single pass wet-on-wet printing or printing using intercolor pinning
- Very high cure speed for curing with Hg bulbs (up to 80 m/min with one Hg bulb)
- High cure speed for curing with UV LED (up to 50 m/min for one 16 W LED 395 nm)
- Wide color gamut
- Pre-treatment of the substrate will mostly have a positive effect on adhesion
- Printing on a broad range of plastic materials as well as other types of materials—priming mostly improves adhesion and image quality
- Ink parameters suited for jetting with standard industrial piezo print heads
- Extremely high jetting reliability and low print head maintenance need
- Black ink delivers very high neutral black density prints (marking & coding)

Technical specifications

Specifications	Cyan	Magenta	Yellow	Black
Static surface tension (25°C)	23.5 mN/m +/- 1.0 mN/m	23.5 mN/m +/- 1.0 mN/m	23.5 mN/m +/- 1.0 mN/m	23.5 mN/m +/- 1.0 mN/m
Viscosity (at 45°C and 12 rpm)	9–11 mPa.s	9–11 mPa.s	9–11 mPa.s	9–11 mPa.s
Pigment particle size (average)	110 nm +/- 10 nm	110 nm +/- 10 nm	170 nm +/- 10 nm	120 nm +/- 10 nm
Shelf life (from production date)*	18 months	18 months	18 months	18 months

* when stored under recommended conditions (4–23°C in closed Agfa bottles, not in direct sun light and away from heat and UV-radiation sources)

Safety information

Safety Data Sheets for Altamira Design DP ink are available according to EC regulation 1907/2006, including classification and labelling information and safe use information. Such data may also be derived from the respective label.

Note

Our technical advice whether spoken, written, or through test trials, corresponds to our current knowledge about our products and their use. This is not meant as an assurance concerning certain properties of the products nor their suitability for each application. You are therefore obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for a specific application is exclusively your responsibility.