
PRODUCT INFORMATION



BoFood® DFC System

The BoFood® DFC system is the next generation of offset inks for printing on the inside of food packaging (direct contact). All current and technically comparable offset inks for printing food packaging are only recommended for printing on the side facing away from the food (outside). This is because most conventional offset components, such as resin, pigment or additives, have not been evaluated or approved for direct food contact.

The BoFood® DFC system is the logical further development of BoFood® Organic to meet the requirements of inside printing on food packaging. All raw materials used in BoFood® DFC have been evaluated and approved for use in coatings with direct food contact.

The selection of raw materials and the entire manufacturing process as well as the incoming and outgoing goods inspections are subject to the strict requirements of GMP Regulation (EC) No. 2023/2006. The basic suitability of printing with BoFood® DFC inks with regard to conformity with Regulation (EC) No. 1935/2004 has been tested and confirmed by an independent institute.

When used as intended and in compliance with good manufacturing practice (GMP), the inks can comply with both the total migration limit (< 60 ppm) and the specific migration limits.

A functional barrier to meet the legal requirements of Regulation (EC) No. 1935/2004 is not required on the part of the ink.

PROPERTIES

The color strength and the color gamut to be achieved with the new BoFood® DFC inks are comparable to conventional printing inks, but conformity to ISO 2846-1 or ISO 12647-2 is not given due to the special pigments used.

Low odor:	yes
Low swelling:	yes
Mineral oil free:	yes
Setting:	yes
Primary food packaging:	suitable
Dispersion coating:	necessary

BoFood® DFC inks can be processed comparably to normal offset inks for food packaging printing. The demand for low odor requires binders that do not meet the usual requirements for rub resistance. For this reason, dispersion coating of all printing work with BoFood® DFC is absolutely necessary.

FASTNESSES

Ink series	Item No.	Light	Transp.	Spirit	Nitro	Alcali
BoFood® DFC Y	135005	6	+	+	-	-
BoFood® DFC R	135006	6	+	+	+	+
BoFood® DFC B	135007	8	+	+	+	+
BoFood® DFC K	135008	8	-	+	+	+

Basic inks :

BoFood® DFC Orange	134802	5	+	+	+	+
BoFood® DFC Red	134803	7	+	+	+	+
BoFood® DFC Violet	134812	7	+	+	+	+
BoFood® DFC Transparent White	134804	/	+	/	/	/

+ property given

- property not given

COATING

For the overcoating of BoFood® DFC inks, we recommend the following products from the Finishfit® range:

Finishfit® WBC Gloss FCM DFC 2038

Suitable for coated surfaces. Finishfit® WBC Gloss FCM DFC 2038 is a dispersion varnish with direct contact properties and can be applied via a coating unit like conventional dispersion varnishes. (recommended varnish quantity: 17-20 cm³/m²)

Finishfit® WBC Barrier FCM DFC 2169

Finishfit® WBC Barrier FCM DFC 2169 is recommended for inline coating in the sheetfed off-set/coating unit (chambered doctor blade). The varnish is also suitable for offline coating with dry, conventional printing inks. In both cases, it can be applied over a wide area without water. (recommended varnish quantity: 17-20 cm³/m²)

Please observe the respective product information.

STORAGE

- Protect from frost, heat and direct sunlight
- Store only in original packaging units at 10 – 30 °C (50 – 86 °F)
- Unopened and correctly stored, BoFood® DFC inks have a shelf life of 12 months from date of delivery.

Note: This technical description is intended to inform and advise you. It corresponds to our current state of knowledge. However, since the specific application depends on a number of factors over which we have no influence, no guarantee and liability for the pressure failure can be derived.