

# Technical Data Sheet

## 1 . Product Profile

type: UFN series UV flexography ink

Scope of application: Flexographic printing

## 2 . Product characteristics

UFN series is a UV ink suitable for rotary flexographic printing. Its performance features include:

- It can be used in a wide range of printing substrates, including paper, PE, PP, pet and other synthetic materials;
- Fast drying speed, good leveling effect, stable printing performance, suitable for high-speed printing;
- Low odor, low VOC, conforming to EU EN71-3 and ROHS directive 2002/95/ec standards;
- High gloss and high color concentration;
- UFN series includes a full range of high resistance inks, which have excellent light resistance, high temperature resistance and chemical resistance.

## 3 . technical parameter

UFN series inks have been prepared to an appropriate state when leaving the factory, and can be used directly on the machine.

Refer to the data listed in the following table when using:

parameter	Pantone Spot color	full point printing	four-color printing	remarks
anilox roll lines	160-180	120-180	300-500	Line/cm
Ink load of anilox roller	5-6	5-10	2-4	cm <sup>3</sup> /m <sup>2</sup>
Anilox roll angle	60°	60°	60°	
Coating thickness	1.6-1.8	1.6-3.0	0.6-1.2	g/m <sup>2</sup>
UV lamp power	160	160	160	w/cm
Printing speed	60-120	60-120	60-120	m/min.
Doctor blade	The use of a doctor blade is strongly recommended			

For thin film materials, in order to make the ink adhere well on its surface, its surface tension must be

Above 38dyne/cm, the use of online corona treatment can ensure that the surface tension of the material meets the standard.

For the first application of materials, it is recommended to conduct adhesion test before formal printing.

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## 4 . Ink number and performance

Number	Type	Light resistance ①	transparency
UFN10017	UV YELLOW	5	Fully transparent
UFN30017	UV MAGENTA	5	Fully transparent
UFN50017	UV CYAN	8	Fully transparent
UFN80017	UV BLACK	8	Opaque
UFN00010	UV RDUCER	--	Fully transparent
UFN10025	UV LIGHT PROOF LEMON YELLOW	7	Fully transparent
UFN10035	UV LIGHT PROOF YRLOE	7	Fully transparent
UFN20010	UV LIGHT PROOF ORANG	7	Fully transparent
UFN30001	UV BRONZE RED	5	Fully transparent
UFN30020	UV LIGHT PROOF BRONZE RED	7	transparent

①: Lightfastness is evaluated according to iso12040, and is divided into 1-8 grades. The larger the number, the better the lightfastness

## 5 . Use and storage

UFN series inks have been blended to the appropriate viscosity, and can be used directly without adjustment before use.

UFN series inks should be stored in a cool environment. The recommended storage temperature is 20-25 ° C. Avoid Yang Light irradiation, keep away from heat source to prevent freezing.