

# J-ECO PRINT HF NANO NP-61

## NANODOT TECHNOLOGY

### ENVIRONMENTALLY-FRIENDLY NANO DISPERSED DYE DIGITAL INK FOR DIRECT PRINTING

J-Eco Print HF Nano NP-61 digital inks are ink-jet printing inks especially designed to be used on digital printers having piezo printing heads. J-Eco Print HF Nano NP-61 are specific for direct printing on polyester fabrics, used for flags, banners and textile applications. The image is printed on polyester fabrics or mixed synthetic fabrics, containing polyester in a min. quantity of 60% polyester and then thermofixed by means of a press, calendar or oven or vaporized with specific equipment.



### ECOCOMPATIBILITY

Free from Alkylphenolethoxylate (APE) according to the EC Directive 2003/53/CE issued on June 18, 2003. APE is a chemical product included in the EDC (Endocrine Disrupting Chemicals) list of substances.

### MAIN FEATURES

- Innovative Nanodot Technology
- High quality colours, vivid and brilliant
- Very good shelf life
- Very high light fastness
- No migration during the fixing procedure
- Excellent image definition after thermofixing treatment
- High saturation grade
- Optimal ink fluidity and printability through piezo-heads
- Fast drying on the fabric



## Applications

Printing directly on flags, banners, fabrics for clothing industries and interior decoration, automotive items requiring a very high light fastness.

The fabric to be printed can be treated or non-treated

## Pre-treatment (for an optimal image definition)

In order to obtain the best results in definition, we suggest to treat the fabric before the printing as follows:

a) Foulard pre-treatment: guar starch 20 gr/lit, ammonium tartrate 5 gr/lit, water as much as necessary, antifoam 1 gr/lit.

b) Screen treatment: guar starch 50 gr/lit, ammonium tartrate 5 gr/lit, water as much as necessary, antifoam 1 gr/lit.

These suggestions are indicative and can vary depending on pieces of equipment and systems used for fabric treatment.

## Thermofixing Conditions

- Steaming after printing 170 °C for 10-12 minutes
- Heat setting through press or calender 180-210 °C for 30-180 seconds depending on type of fabric
- Heat setting through oven 150-200 °C for 1-5 minutes

## Available colours and type of packing

- 100C Cyan
- 105CT Turquoise
- 102B Blue
- 200M Magenta
- 203O Orange
- 204R Red
- 300Y Yellow
- 400K Black
- 409IK Intense Black

## Table of fastness properties

Colours		Fastness EN ISO		
		Light 105B02	Washing 105C02	Alcaline perspiration 105E04
100C	Cyan	6/7	5	5
102B	Blue	6	5	5
105CT	Turquoise	7	5	5
200M	Magenta	6/7	5	5
203O	Orange	7	4/5	5
204R	Red	6/7	4/5	5
300Y	Yellow	7	5	5
400K	Black	6	4/5	5
409IK	Intense Black	6	4/5	5

Available in 1-Lt bottle for feeder and 1-lt container

**Important:** We strongly suggest to always carry out pretests of printing, drying and heat setting on the substrate to be printed in order to establish the operative conditions and the results to be achieved. We also suggest to stir the product before the use and carefully follow the instructions written on the label and on the material safety data sheet enclosed to the products. Furthermore, we remind you that the ink performances can vary according to the type of printer, paper and polyester fabric used in the final application.

**Note:** The information contained in this information sheet are based on our present experience and knowledge. In consideration of the various factors which can effect the results achieved in the final application, J-Teck3 Srl does not take any responsibility for an unproper use of the product by the user which can violate or damage rights of third parties.

The information contained herein is general in nature and believed to be correct at the time of writing. No responsibility will be accepted by J-Teck3 Srl for any loss or damage suffered by anyone as a result of the information contained herein.