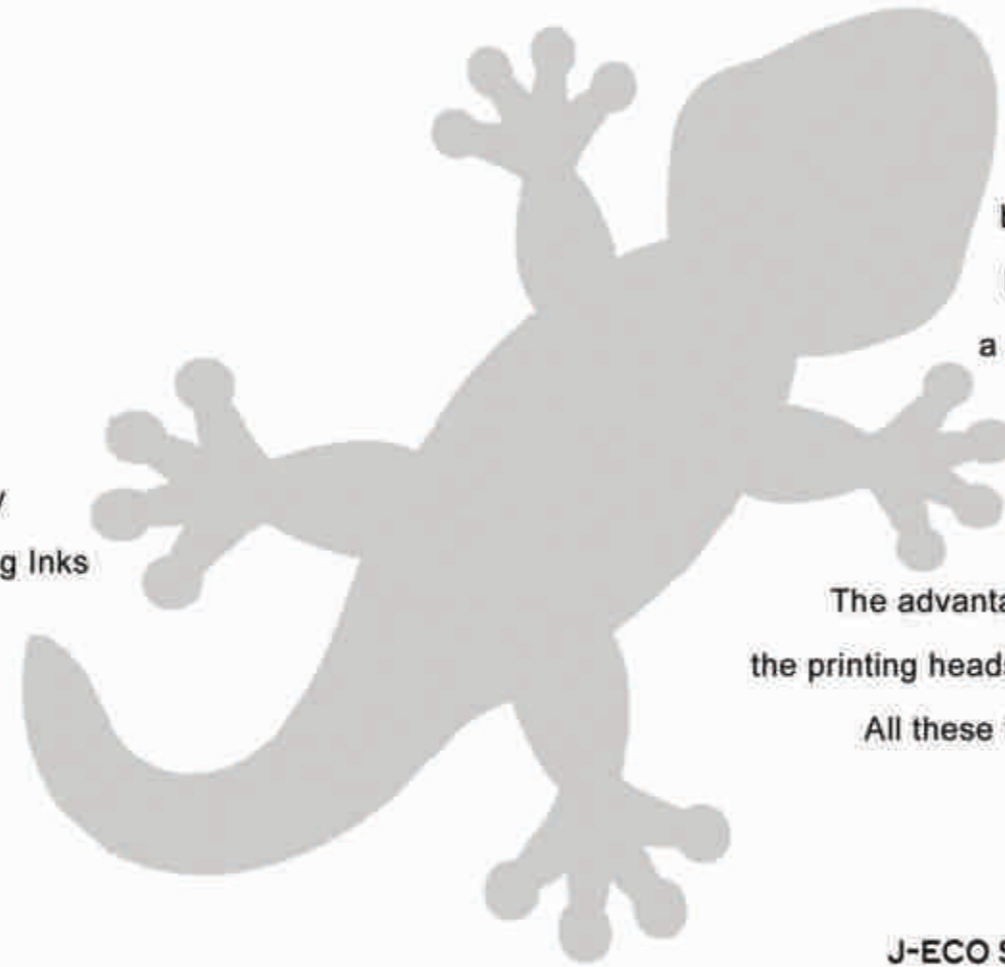




J-Teck 3's Nanodot Technology
Discover the future of Digital Printing Inks



The constant research for advanced and innovative solutions giving higher product performance under extreme conditions of application brought J-Teck3 to develop a new process technology. It has been named Nanodot Technology as it grants an optimal pigment dispersion thanks to a combined technique of reduction in nanoparticles together with a process of surface fixation of active ionic polymers on the particles themselves.

The advantages of this new technology are many: improved fluidity of the ink through the printing heads, fast drying on the sublimation paper, better stability during the process.

All these factors undoubtedly improve the performances of the ink with subsequent benefits on the printing heads and the printing system in general.

J-ECO SUBLY NANO



J-ECO PRINT NANO



J-ECO FLAG NANO



J-ECO PRINT HF NANO





J-ECO SUBLY NANO NS-60

TECHNICAL DATA

NANODOT
TECHNOLOGY

ENVIRONMENTALLY-FRIENDLY NANO DISPERSED DYE DIGITAL INK FOR SUBLIMATION PRINTING

J-Eco Subly NANO NS-60 are ink-jet printing inks especially designed to be used on digital printers having piezo printing heads. They are particularly suitable for digital printing on polyester textiles used in sports and outer wear, as well as for a variety of plastic substrates used in the manufacturing of skis, snowboards, skateboards, windsurfs and other products. The image is printed on coated paper and then transferred (heating temperature around 210°C) on polyester fabrics, or mixed synthetic fabrics containing polyester in a min. quantity of 60%.

For the application on plastic materials, such as polyamide; the transfer temperature varies according to the type of substrate and its chemical-physical characteristics. For instance, the plastic sheets used in skis and snowboards manufacturing are transferred at 170-180°C for 90/120 seconds.



ECOCOMPATIBILITY

Free from Alkylphenoethoxylate (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
- Vibrant and bright colours
- Very good shelf-life
- Optimal ink fluidity and printability through piezo-heads
- Fast drying on substrates dedicated to transfer
- Very good release on paper and image definition after transfer
- Very good fastness properties

Applications

- Printing on polyester and polyamid (lycra, nylon) fabrics used in sportswear and outer wear in general
- Printing on mixed synthetic fabrics (min. 60% of synthetic fibres) used in sportswear and outer wear in general
- Printing on plastic substrates used in the manufacturing of sport equipment such as skis, snowboards, skateboards, windsurfs etc.
- Printing on every substrates (wood, ceramics, glass) overprinted with polyester-based or polyamid-based coatings

Transfer Condition

Can vary from 30 to 60 seconds for 180°-210°C according to the type of substrate

Available colours and type of packing

- 100C Cyan
- 101LC Light Cyan
- 102B Blue
- 105CT Turquoise
- 200M Magenta
- 201LM Light Magenta
- 203O Orange
- 205EM Extra Magenta
- 300Y Yellow
- 400K Black
- 401GY Grey
- 403HK High Black
- 405AK Absolute Black
- 406KX Extra Black
- 500G Green

Table of fastness properties

Colours	Class Colour Intansity	Fastness EN ISO		
		Light 105B02	Washing 105C02	Alcaline perspiration 105E04
100C Cyan	C	5/6	4/5	4/5
101LC Light Cyan	C	5/6	4/5	4/5
102B Blue	B/C	5/6	4/5	3
105CT Turquoise	D	7	5	5
200M Magenta	C	6/7	4/5	5
201LM Light Magenta	C	6/7	4/5	5
203O Orange	C	5/6	4/5	4/5
205EM Extra Magenta	C	6/7	4/5	5
300Y Yellow	B	6/7	4/5	4/5
400K Black	B/C	6	4/5	5
401GY Grey	B/C	6	4/5	5
403HK High Black	B/C	5/6	4/5	4/5
405AK Absolute Black	B/C	5/6	4/5	4/5
406KX Extra Black	B/C	6	4/5	5
500G Green	B/C	6	4/5	4/5

A= transfer 180°C C= transfer 200°C
B= transfer 190°C D= transfer 210°C

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

Important: We strongly suggest to always carry out pretests of printing, drying and transfer 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 improper 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.

DT - March 2007



J-ECO FLAG NANO NF-60

TECHNICAL DATA

NANODOT TECHNOLOGY

ENVIRONMENTALLY-FRIENDLY NANO DISPERSED DYE DIGITAL INK FOR SUBLIMATION AND DIRECT PRINTING

J-Eco Flag Nano NF-60 digital inks are ink-jet printing inks especially designed to be used on digital printers having piezo printing heads. J-Eco Flag Nano NF-60 are suitable both for direct and sublimation printing on polyester fabrics or mixed synthetic fabrics, containing polyester in a min. quantity of 60%. In the sublimation process, the image is printed on coated paper and then transferred on the fabric with a heat press or calender. Direct printing process, instead, allows direct printing onto the fabric and then a subsequent process of thermofixation.

For application on different material such as polyamide, the transfer or thermofixing temperature varies according to chemical-physical characteristics of the substrate to be printed. For instance, the plastic sheet used in skis and snowboards manufacturing are transferred at 170-180°C for 90/120 seconds.



ECOCOMPATIBILITY

Free from Alkylphenoxyethoxylate (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
- Vibrant and bright colours
- Very good shelf-life
- Optimal ink fluidity and printability through piezo-heads
- Excellent image definition in direct printing and transfer as well
- Very good fastness properties

Applications

- Printing on polyester and polyamide (nylon) fabrics used in sportswear and outer wear in general
- Printing on mixed synthetic fabrics (min. 60% of synthetic fibres) used in sportswear and outer wear in general
- Printing on polyester and polyamide banners and flags on treated and non-treated fabrics

Transfer and Thermofixing Conditions

- Transfer conditions can vary from 30 to 60 seconds for 180°-210°C according to the type of substrate
- Thermofixing can occur by means of a press or calender. The thermofixing temperature and time varies according to chemical-physical characteristics of the substrate to be printed.

Available colours and type of packing

- 100C Cyan
- 101LC Light Cyan
- 102B Blue
- 105CT Turquoise
- 200M Magenta
- 201LM Light Magenta
- 203O Orange
- 205EM Extra Magenta
- 300Y Yellow
- 400K Black
- 401GY Grey
- 403HK High Black
- 405AK Absolute Black
- 406KX Extra Black
- 500G Green

Table of fastness properties

Colours	Class Colour Intensity	Fastness EN ISO		
		Light 105B02	Washing 105C02	Alcaline perspiration 105E04
100C Cyan	C	5/5	4/5	4/5
101LC Light Cyan	C	5/5	4/5	4/5
102B Blue	B/C	5/5	4/5	5
105CT Turquoise	D	7	5	5
200M Magenta	C	6/7	4/5	5
201LM Light Magenta	C	6/7	4/5	5
203O Orange	C	5/5	4/5	4/5
205EM Extra Magenta	C	6/7	4/5	5
300Y Yellow	B	6/7	4/5	4/5
400K Black	B/C	6	4/5	5
401GY Grey	B/C	6	4/5	5
403HK High Black	B/C	5/5	4/5	4/5
405AK Absolute Black	B/C	5/5	4/5	4/5
406KX Extra Black	B/C	6	4/5	5
500G Green	B/C	6	4/5	4/5

A= transfer 180°C
B= transfer 190°C
C= transfer 200°C
D= transfer 210°C

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

Important: We strongly suggest to always carry out pretests of printing, drying and transfer 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.

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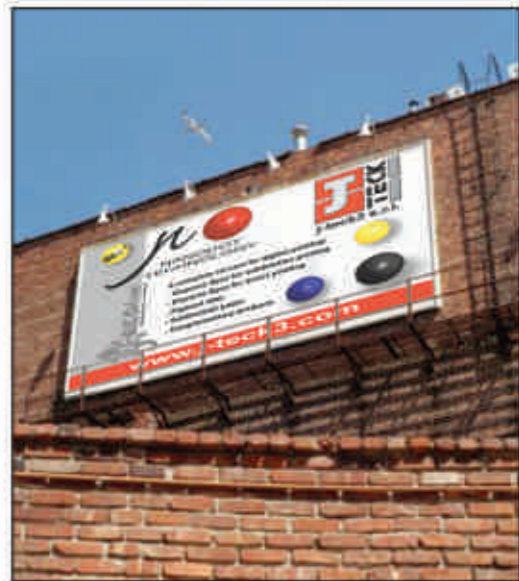
J-ECO PRINT NANO NP-60

TECHNICAL DATA

NANODOT
TECHNOLOGY

ENVIRONMENTALLY-FRIENDLY NANO DISPERSED DYE DIGITAL INK FOR DIRECT PRINTING

J-Eco Print Nano NP-60 digital inks are ink-jet printing inks especially designed to be used on digital printers having piezo printing heads. J-Eco Print Nano NP-60 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 or calendar.



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
- Very high brilliant and vibrant colours
- Very good shelf life
- Very good fastness properties
- Excellent image definition after thermofixing treatment
- Optimal ink fluidity and printability through piezo-heads
- Fast drying on the fabric
- Especially designed for flags and banners

Applications

Direct printing on flags, banners and fashion items requiring high brilliancy and vibrant colours. The fabric to be printed can be treated or non-treated

Thermofixing Conditions

- Heat setting through press or calender 180-210°C for 30-180 seconds depending on type of fabric

Available colours and type of packing

- 100C Cyan
- 102B Blue
- 200M Magenta
- 201O Orange
- 205EM Extra Magenta
- 300Y Yellow
- 400K Black
- 405AK Absolute Black
- 406KX Extra Black

Table of fastness properties

Colours	Fastness EN ISO		
	Light 100B02	Washing 105C02	Alcaline perspiration 105E04
100C Cyan	5/6	4/5	4/5
102B Blue	5/6	4/5	5
200M Magenta	6/7	4/5	5
201O Orange	5/6	4/5	4/5
205EM Extra Magenta	6/7	4/5	5
300Y Yellow	6/7	4/5	4/5
400K Black	8	4/5	5
405AK Absolute Black	5/6	4/5	4/5
406KX Extra Black	8	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 transfer 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 improper use of the product by the user which can violate or damage rights of third parties.

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J-ECO PRINT HF NANO NP-61

TECHNICAL DATA

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 Alkylphenoethoxylate (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:

- Foulard pre-treatment: guar starch 20 gr/lit, ammonium tartrate 5 gr/lit, water as much as necessary, antifoam 1 gr/lit.
- 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
- 204R Red
- 300Y Yellow
- 400K 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
204R Red	6/7	4/5	5
300Y Yellow	7	5	5
400K Black	6	4/5	5

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

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