



Nylobag NB One/Two-pack Screen Inks

Nylobag NB inks are for direct printing onto nylon bags and many other synthetic fabrics.

Additives

Catalyst:

Nylobag NB can be used as a simple one-pack system but for more demanding requirements NB386 NB Catalyst is recommended for mixing into the base colours. NB Catalyst improves adhesion and fastness properties and decreases the possibility of adhesion deterioration over a period of time.

Catalysed inks have a pot life of approximately 8 hours. Estimate the amount of ink required for a day's work and thoroughly mix the ink base and catalyst in the following ratio:

Nylobag NB Ink	90 parts by weight
NB Catalyst	10 parts by weight

Catalysed ink left over at the end of the printing run should be discarded.

Hold-Out Additive:

When using catalysed ink, optimum 'hold-out' on absorbent fabrics can be achieved by additions of ZE811 Hold Out Additive. ZE811 is not recommended for uncatalysed ink and should be added to catalysed ink in the following ratio:

Nylobag NB Ink (Catalysed)	100 parts by weight
ZE811 Hold Out Additive	1 part by weight

Flexibility Additive:

When using catalysed inks, improved flexibility on lightweight fabrics can be achieved by additions of NB431 Flexibility Additive. NB431 is not recommended for use with uncatalysed ink and should be added to the catalysed ink in the following ratio:

Nylobag NB Ink (Catalysed)	90 parts by weight
NB431 Flexibility Additive	10 parts by weight

Adhesion and Pre-production Tests

Nylobag NB inks have good adhesion and flexibility on many nylons, polyesters and other synthetics.

Certain fabrics may be finished or impregnated with waterproofing agents which may impair adhesion even a considerable period after printing. For many showerproofed and siliconised materials, improved results can be achieved by using Nylotex NX (See Product Information Sheet). For maximum adhesion to be obtained and maintained, catalyse the ink before use. Where lower opacity is tolerable, further improvements to adhesion can often be achieved by printing at a lower viscosity to aid penetration into the fabric.

In some cases, incompatibility between ink and fabric may lead to reduced tear resistance in the printed area – especially if catalysed ink is printed on very lightweight fabrics.

Fastness

Uncatalysed inks have good wash fastness to I.S.O. Test Nos. 1 (40°C) and the United Kingdom Home Laundering Consultative Council Recommendations Nos. 5, 6 and 7 (40°C).

Catalysed inks, with the exception of Opaque Fluorescent colours, have excellent wash fastness to I.S.O. Tests No. 3 (60°C) and 4 (95°C) as well as the United Kingdom Home Laundering Consultative Council Recommendation Nos. 2 and 3 (60°C) and 1 (95°C).

Catalysed Opaque Fluorescent inks have excellent wash fastness to I.S.O. Tests No. 3 (60°C) as well as the United Kingdom Home Laundry Consultative Council Recommendations No. 2 (60°C).

Catalysed inks also have very good fastness to dry cleaning.

Main Characteristics

Drying

Air drying: 30-60 minutes followed by racking overnight.
Convection oven: 100°C for 2 minutes.

Thinning & Wash-up

Up to 10% ZE805 Nylo Thinner.
For maximum opacity, print unthinned.
For hot shop conditions, use up to 10% ZE806 Nylo Retarder.
Wash up with Seriwash Universal Screenwash or Actisol Superjet Screen Spray.

Mesh

For maximum opacity: Nos. 34-62T monofilament.
For printing fine detail: Nos. 77T-90T monofilament.

Stencil Type

Most solvent resistant types are suitable.
Recommend: Dirasol 916

Coverage & Mesh No.

16m²/ltr. No. 43T monofilament.

Fabrics

Many grades of nylon, polyesters and other synthetic fabrics.

Colour Range

19 including fluorescents.

Properties

High Opacity. Good Flexibility. Excellent Wash Fastness. Excellent Adhesion. Lead-free Pigmentation.

IMPORTANT:

Stir well before every use. Before a production run, users should satisfy themselves of ink and fabric compatibility to ensure adhesion and fastness requirements are met.

Addition of Universal Tinters

Universal Tinters (UTs) can be used to improve colour strength. **However additions of greater than 5% can lead to a significant reduction in adhesion properties.** All additions must be fully tested before commencing production.

Workwear Emblems

Catalysed Nylobag NB inks can be used to print Workwear Emblems capable of withstanding industrial washing processes. Typically prints are produced by printing images onto poly-cotton sheets, pre-laminated with a suitable hot-melt adhesive. See Product Information sheet 'Sericol Textile Transfer Systems' for full details.

Standard Colours

Nylobag NB:

NB001	Black
NB021	White
NB042	Light Chrome
NB045	Yellow
NB043	Mid Chrome
NB101	Light Orange
NB162	Light Red
NB134	Red
NB124	Deep Red
NB154	Fuchsia
NB127	Deep Violet
NB227	Light Blue
NB212	Blue
NB320	Green
NB381	Extender Base

Available in 5 and 1ltr containers

Nylobag NB Opaque Fluorescent Colours

NB077	Opaque Fluorescent Yellow L
NB119	Opaque Fluorescent Orange M
NB179	Opaque Fluorescent Red M
NB180	Opaque Fluorescent Magenta M
NB294	Opaque Fluorescent Green M

Available in 1 ltr containers.

Additives

NB386	NB Catalyst
NB431	Flexibility Additive

Available in 1 ltr and 0.2 ltr containers.

ZE811 Hold Out Additive

Available in 0.2 kg containers.

Solvents

ZE805	Nylo Thinner
ZE806	Nylo Retarder

Available in standard 5 ltr containers.

FUJIFILM Sericol UK Limited:

- Has certification to the International Environmental Standard, ISO 14001
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

Nylobag NB Inks:

- Are formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC (as amended).
- Contain barium and therefore should not be used on objects liable to be sucked or chewed by children.

NB386 NB Catalyst:

- Contains isocyanate and should not be used by persons suffering from bronchitis or asthmatic symptoms.

Comprehensive information on the safety and handling of Nylobag NB screen inks and solvents is given in the appropriate Sericol Safety Data Sheet, available upon request.

Environmental Information

Nylobag NB Inks & NB386 NB Catalyst:

- Do not contain ozone depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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