



## MagnaTrans™ Heat Transfer Range

### Water-based system

**MagnaTrans™** is a range of water-based two-pack heat transfer inks, pigments, and adhesives, designed to produce single and multi-coloured transfers on release coated film. **MagnaTrans** inks offer excellent elasticity, soft handle, high wash durability, exceptional screen performance and runnability. The system can even be used on the most demanding high stretch fabrics such as spandex - when used in conjunction with **MagnaTrans Migration Blocker**. The range is also fully compatible with digitally printed transfer systems including HP Indigo and Ricoh digital films.

The **MagnaTrans Heat Transfer Range** is a **two-pack system** and consists of the following products:

- **MagnaTrans White** – High opacity, flexible, ready-to-use white ink.
- **MagnaTrans Neutral** – Transparent, flexible, ready-to-use clear ink.
- **MagnaTrans Black** – High opacity, flexible ready-to-use black ink.
- **MagnaTrans Migration Blocker** – Migration blocker designed to prevent dye migration on polyester garments.
- **MagnaTrans Fixer** – Fixer to reduce the curing times and temperature of the MagnaTrans range to 140°C (285°F) and above. Add at 3%.
- **MagnaTrans Fixer LT** – Fixer to reduce the curing times and temperature of the MagnaTrans range to 90°C (194°F) and above. Add at 2%.\*

\*Suitable when lower drying temperatures are required due to substrate demands.

### Usage (2-Pack System)

- MagnaTrans inks are supplied as single-pack and catalyst (Fixer/Fixer LT) separately. Ensure that you mix the inks thoroughly prior to use as settling of the ink may occur during transportation and storage.
- The MagnaTrans Range is suitable for use on manual, semi-automatic, or fully automatic machine types.
- The optimum temperature of the printing area is 18-25°C (64-77°F) with humidity at 50-60%rh.

### SPECIFICATION



#### FABRIC TYPES

Cotton, Poly-Cotton Blends, Polyester\*



#### MESH

34 - 100T (86 - 250)



#### SQUEEGEE

70–75" Shore, Square Edge Squeegee



#### CURE TEMPERATURE

60-90 seconds at 140°C (284°F)



#### PIGMENT LOADING

Up to 12% Eco-Pigments



#### ADDITIVES

MagnaTrans Fixer 3%  
MagnaTrans Fixer LT 2%  
Retardant Gel Conc 5%



#### STORAGE

In cool place properly closed:  
>5°C (40°F) <25°C (77°F)



#### HEALTH & SAFETY

MSDS available upon request



#### CLEAN UP

Wash off screen using water and mild detergent

\* With the use of MagnaTrans Migration Blocker.

All information is given in good faith but without warranty. They do not release you from testing our products as to their suitability for the intended processes and uses.



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- It is necessary to add **3% MagnaTrans Fixer or 2% MagnaTrans Fixer LT prior to printing.**
- Allow 24 hours after printing before applying transfers to the garment.
- A minimum of 72 hours after printing is required to ensure optimum resistances and full wash resistances.

### Application

Printing is best undertaken using 34 – 100T (86-250) screen mesh, with a **70–75° Shore, Square Edge Squeegee**. Use a combination of **MagnaTrans™ White and Neutral** pigmented with **Eco-Pigments** to build up the transfer, ensuring the ink is fully dried in between each layer.

### Drying

If using Fixer, the printed sheet should be dried in between layers at 140°C (284°F) for 60-90 seconds. Alternatively, if using Fixer LT, prints can be dried in between layers at 90°C (194°F) for 60-90 seconds.

When producing transfers for polyester fabrics where dye migration is an issue, we recommend using **MagnaTrans Migration Blocker** and **3% Fixer** as the final layer of ink before adhesive is applied.

Once you are happy with the transfer build up, apply **MagnaTrans Transfer Adhesive** as the final backing adhesive. Alternatively, apply **MagnaTrans PU Powder 60** to the final wet layer and dry accordingly.

The finished transfer can be applied to the required substrate on a heat press at 165°C (329°F) for 12 seconds, 4-6 Bar pressure, or as per adhesive instructions. Once pressed, remove the transfer film from the print.

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