Tecnical Data Sheet

08.2010 Transfer Printing I Offset Printing

OFFSET TRANSFER SERIES

Use Principle

It it used on all kinds of offset machine. With the ink,first print image on paper, then transfer the image onto various materials by heat transfer press, especially for polyester fabric. Under high temperature, the ink will become gas and go into fabric.

Use Scope

OFFSET (one color, two color and four color machines)

Use Method

1.Be able to adapt to the demand for middle-speed or high-speed printing.
2.During the normal condition, use the ink on the machine directly.

The printing process just needs 3 steps

1. Print the image on paper, and normal paper is ok.
2. Put the printed paper on substrate, such as polyester and nylon fabric.
3. Put the paper and fabric on the heat-transfer machine. When the temperature reaches 180-220°C, the image will be transfer printed from paper onto the substrate.

Suitable Fabrics

Polyester fabric
Triacetate fabric
Nylon fabric, Acrylic fabric
Polypropylene nitrile

Transfer Paper

Coated paper, offset paper,chrome paper and calendered paper.
Transfer paper should be 80-90 gr/m² with dimensional stability.

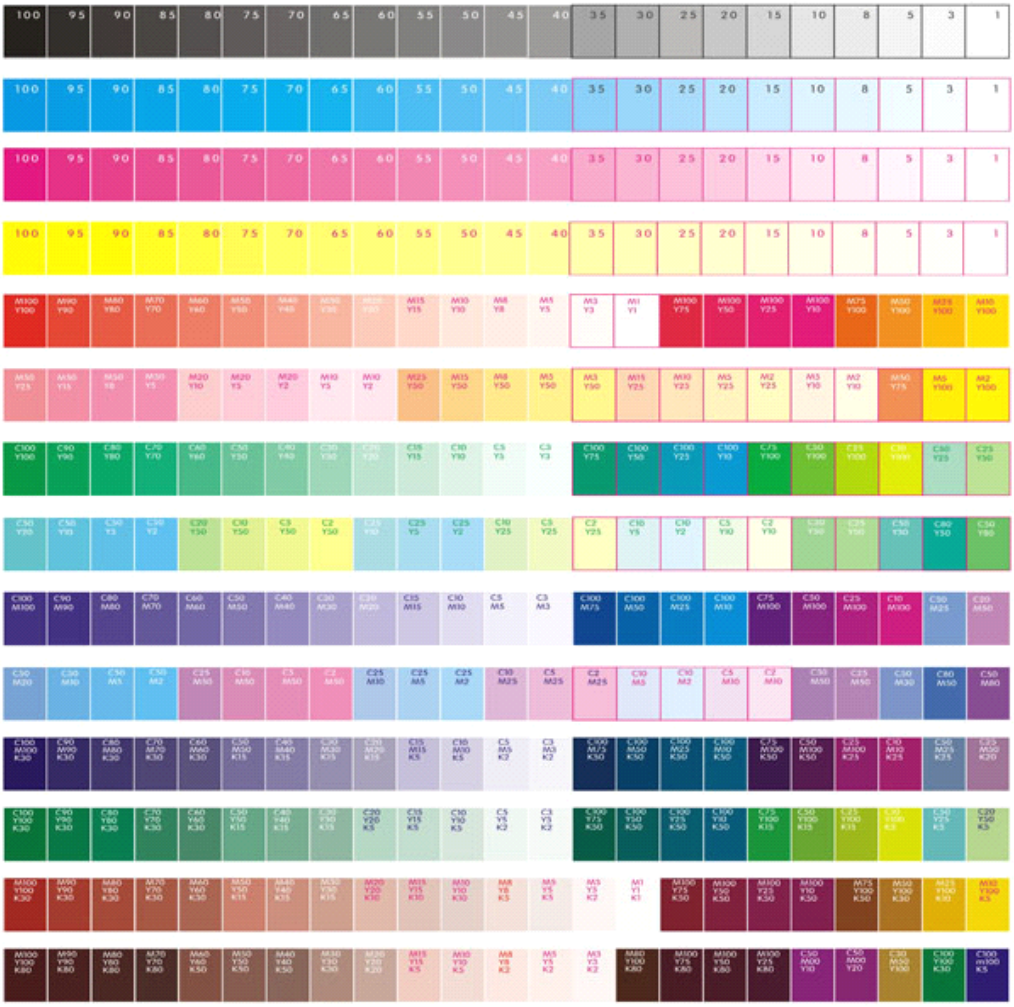
Colors

Magenta, Yellow, Cyan, Black

Parameters for the Transfer

Temperature: 200° - 220° C.
Time:20 – 40 seconds.

Our Sublimation Ink transferred into fabric



*P.S. please make samples before the final printing to confirm the exactly image.

Product characteristics

* No Crust
a.Granula size is less than 5 micron.
b.No crust in 7 days at normal temperature.

* Safety
Passed SGS,DGM,MSDS,totally environment-friendly!

* Advantage
Good stability on the machine,clear dot reproduction,excellent ink-water balance.

The following is the transfer printing parameters for your reference

Name of fabric	Transfer temperature	pressure	Time
Polyester fabric	205℃～220℃	0.5kg/cm2	10～30 seconds
Polyester deformation fabric low elastic	195℃～205℃	0.5kg/cm2	30 seconds
Triacetate fabrics	190℃～200℃	0.5kg/cm2	30～40 seconds
Nylon fabric	195℃～205℃	0.5kg/cm2	30～40 seconds
Acrylic fabric	200℃～210℃	0.5kg/cm2	30 seconds
Two acetate fiber fabric	185℃	0.5kg/cm2	15～20 seconds
Polypropylene nitrile	190℃～220℃	0.5kg/cm2	10～15 seconds

Dye degree:(European Standard)

Color fastness				
Color	Magenta	Yellow	Cyan	Black
Rank	5-6	6	4	4

N.B. The control of the colors is always carried out after the transfer of the final supports.
The relationship between the temperature and the time of contact is important in order to have the optimal color resistance and ink penetration (the longer the time of transfer, the better the ink penetration of the fabric).

Storage Indications

Products in their original unopened containers maintain their characteristics for two year if stored in a well ventilated place with a temperature between + 5° and + 40°C.Products opened, but immediately closed after use, have a shelf life of at least 12 months.

Packing 1kg/tin,12kg/carton. Carton inside,wooden outside.