

## DAIICHI-AF NON-VOC PROCESS INK

### Introduction

Organic volatiles ( VOC ) in ordinary inks are organic compounds that can react with sunlight and-nitrogen oxides in the ozone layer . The VOC volatilized into ozone combine with some substances to form gray fog , which has a negative impact on the health of animals , plants and other organisms .Based on the concept of environmental protection , DAIICHI-AF NON-VOC be used vegetable oil to replace mineral oil. It has ultra-low VOC volatilization during printing and drying, high content of film-forming substances in printing products, bright colors and environment friendly. It is a relatively environment friendly lithographic offset printing product in the world.

### Features / Advantages

- ◆ Green environmental protection , pure Vegetable Oil , no mineral oil components
- ◆ Ultra-low VOC emissions , reduce environmental pollution
- ◆ Bright colors , high saturation, and excellent dot restoration
- ◆ Has high fountain solution matching, good stability on machine
- ◆ Suitable for coated paper, matt paper, cardboard and offset paper
- ◆ Product complies with ISO-2846-1 international color standard and ISO12647-2 international printing standard
- ◆ We Passed the ISO9001 and ISO14001 System Certification, American Soybean Association Agreement and Green Ten-ring Certification by CEC .
- ◆ The product according to ROHS , REACH ( SVHC ), EN71 and other test standards.

### Ink's property

DAIICHI-AF NON-VOC	YELLOW	MAGENTA	CYAN	BLACK
DM	37-39	35-37	35-37	35-37
T.V	6.5-7.5	7.0-8.0	7.5-8.5	7.5-8.5
SET TIME(min)	8-12min	8-12min	8-12min	8-12min
GLOSS(60°)	70-80	60-70	60-70	70-80
DENSITY	1.20-1.30	1.85-1.95	1.90-2.00	2.10-2.20
PARTICLE SIZE	< 10um	< 10um	< 10um	< 10um
PAPER DRYING TIME	< 10Hr	< 10Hr	< 10Hr	< 10Hr
SKINNING	> 24Hr	> 24Hr	> 24Hr	> 24Hr
RUB RESISTANT STRONG→WEAK(5-1)	4	4	4	4



### Test method

**DM** : measured by Spreadmeter(60sec/25°C)

**Tackness** : measured by Ink-O-meter(60sec/400rpm, 32°C)

**Particle size** : measured by Grinding gauge( μ m)

**Gloss** : measured by Glossmeter (60°)

**Set time** : measured by Setting tester(120g/m<sup>2</sup> ,INK 0.01cc)

**Rub resistant** : measured by Rub tester

### Resistant level

DAIICHI-AF NON-VOC	YELLOW	MAGENTA	CYAN	BLACK
Acid	5(excel)-1(poor)	5	2	5
Alkaline	5(excel)-1(poor)	5	2	5
Water	5(excel)-1(poor)	5	4	5
Alcohol	5(excel)-1(poor)	4	4	5
Lightfastness	8(excel)-1(poor)	4	4	8

