



# YZ58 Series PP Silk Screen Ink

## 【Printing substrate】

Can be printed on treated PP, OPP, PP foam board, KT board, YUPO paper and surface treated PE substrate. Has good adhesion for certain coated wood, plastic and metal surface.

## 【Physical properties】

- ❖ Single component, high gloss, medium drying speed, wide range of application, good adhesion
- ❖ High colour saturation
- ❖ Ink has good alcohol resistance, good scratch and rub resistance
- ❖ Varnish for this series is acidic which can cause gold and silver powder to cross-link. It is not recommended to store gold and silver ink, instead prepare it right before printing
- ❖ Surface dry: 25 °C x 30-45 min or 60 °C x 8-10 min  
Complete dry: 25 °C x 24h or 60 °C x 30-40 min Best film hardness achieved after 24 hr

## 【Technical parameter】

Test	Result	Test condition
Fineness	$\leq 5\mu\text{m}$	Grindometer
Dry film gloss	$\geq 70^\circ$	60° glossmeter
Adhesion	100/100	1mm x 1mm x cross cut test 3M 600 adhesive tape peel test
Alcohol resistance	No visible change	99.7% anhydrous ethanol 1000g weight x rub 50 times
Acid resistance	No visible change	Soak in 5 % HCl x 24 hr
Alkaline resistance	No visible change	Soak in 5 % NaOH x 24 hr
Salt resistance	No visible change	Soak in 5 % NaCl x 24 hr
Water resistance	No visible change	Soak in 25 °C tap water for 96 h



### 【Diluent】

KTS-5000 (Drying speed medium), KTS-783 (Slow drying speed), recommended addition amount 10-15%

### 【Cleaning】

Can use KTS-3000 for screen cleaning

### 【How to use】

- ❖ Stir well before use to avoid separation after addition of additive
- ❖ Clean substrate well to make sure it is dust and grease free before printing
- ❖ Choose suitable screen for best printing performance
- ❖ For dye containing PP use PP treatment solution (GP-1008) to wipe the printing surface to enhance ink adhesion
- ❖ In order to achieve small and fine lines, words and shape during printing, 5 % of smoothing out agent SD-1001 can be added to avoid ink from spreading, forming streaks and blur out
- ❖ For transfer print 8-10% smooth out agent SD-1001 should be added to enhance transfer print performance

### 【Colour code】

Code	Hue	Eco-friendly grade	Code	Hue	Eco-friendly grade
YZ58-102	white	A	YZ58-305	orange red	A
YZ58-110	varnish	A	YZ58-308	magenta	A
YZ58-203	base yellow	A	YZ58-401	purple	A
YZ58-206	lemon yellow	A	YZ58-403	base blue	A
YZ58-209	mid yellow	A	YZ58-404	cyan	D
YZ58-300	rose red	A	YZ58-408	greenish blue	A
YZ58-301	light fast red	A	YZ58-501	black	A
YZ58-302	red	A	YZ58-601	green	A

SD-1001 Smooth out agent: To enhance the fineness and 3D texture for printed words, also can increase ink transfer performance during transfer print

GP-1008 PP process solution: Increase PP ink adhesion



### **【Environmental information】**

According to SGS and CTI testing, above apart from YZ58-404 cyan, all comply with ROHS, EN71-3, ASTM-F963, HR4040 environmental requirement, it also comply with “Bauhinia Variegata eco- friendly category A”. Customer is recommended to assess whether the ink meets environmental requirement before use

### **【Storage】**

Ink should be stored in cool places, ink can be stored under ambient temp. for 24 months, gold and silver ink can be stored for 6 months, please check quality of ink before use. When use under standard EHS rules this product should not be harmful to human body, like other typical chemicals when using this product please avoid touching skin and eyes, if touched please wash it with water and seek medical attention. See MSDS for more.

### **【Disclaimer】**

The data shown in this document is based on actual production and test result generated within our company. Above data is only for reference and does not bear any legal guarantee responsibilities. Whether actual ink performance can meet user’s requirement depends on application conditions and substrate etc. We suggest that users should access whether current production conditions meet the application requirement of each product before printing. Since we cannot control the actual application and storage conditions, we cannot guarantee the final product performance. All product sales subject to our standard sales terms and conditions.