DESIGN GUIDE

PRINTING THE ZODIAC

Printing Instructions for Zodiac[™] Eco-Conscious Inks





Exploring the Wonders of Printing Eco-Conscious Ink

Zodiac[™] Aquarius[™] Waterbased Inks for Textile Printing

PRODUCT DESCRIPTION

Zodiac[™] Aquarius[™] waterbased inks have been developed to meet the sustainability demands of the consumer without compromising the performance and durability demands expected by the printer.



SOFT BASE INK Zodiac Aquarius[™] soft base inks are designed for printing on white or light-colored garments without affecting the fabric hand feel. The ink is ready-to-use and is formulated to prevent drying on the screen, even on 320-mesh count. Aquarius[™] soft base inks are well-suited for use by printers new to waterbased ink.



HIGH SOLIDS INK Zodiac Aquarius[™] high solids ink were developed to meet the performance and durability requirements of sport brands. The high solids ink range consists of high opacity white and a soft, flexible base to produce highly opaque, soft hand prints. Use this over the top of Zodiac Aquarius[™] Migration Stop on polyester and poly blends.



DISCHARGE INK The Zodiac Aquarius[™] range of bright discharge inks allow printers to achieve bright whites and colors. They are offered in ZFS (formaldehyde-containing) ranges.



SPECIAL EFFECTS

Ready-to-use waterbased special effects are designed to enhance prints and differentiate designs. This extensive range of products includes reflective, pearlescent, metallics, brittle, high-gloss, glowin-the-dark and suede to bring prints to life.



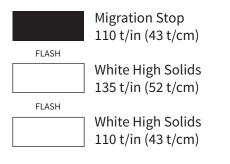
HIGH MESH INK These inks are formulated to achieve fine, tonal detail, and bright color. The high mesh opaque and base inks are easy to use with the wet-on-wet printing technique without drying on the mesh. Excellent crock and durability performance.



REGULATORY SUPPORT The Zodiac[™] Restricted Substance List was designed to help ensure compliance with industry standards and is available for review when specific compliances are required.



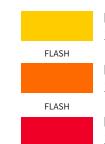
PRINTING INFORMATION





PHOENIX FLIGHT

The phoenix represents humanity's uncanny ability to rise from the ashes of defeat and the cyclical nature of life as we know it. This design was created to showcase the robust quality of the Zodiac Aquarius High Solids range, focusing specifically on the bleed blocking capabilities of Zodiac Aquarius Migration Stop on polyester garments.



High Solids Base Pantone® 116 C 160 t/in (62 t/cm)

High Solids Base Pantone[®] 1505 C 160 t/in (62 t/cm)

High Solids Base Pantone® 185 C 160 t/in (62 t/cm)

PIGMENT NAUTILUS

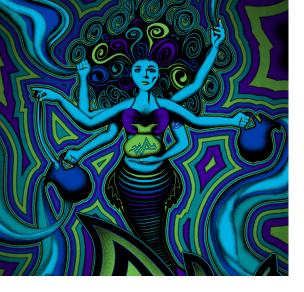
Sometimes it's fun to overdo it. Our Pigment Nautilus utilizes Zodiac Aquarius Soft Base to showcase all fifteen of our Zodiac Aquarius Waterbased Pigment Colors.

PRINTING INFORMATION

Soft Base Blue G Concentrate 160 t/in (62 t/cm)	Soft Base Magenta Concentrate 160 t/in (62 t/cm)
Soft Base Green Concentrate 160 t/in (62 t/cm)	Soft Base Fluorescent Pink Concentrate 160 t/in (62 t/cm)
Soft Base Fluorescent Yellow Concentrate 160 t/in (62 t/cm)	Soft Base Fluorescent Violet Concentrate 160 t/in (62 t/cm)
Soft Base Yellow Concentrate 160 t/in (62 t/cm)	Soft Base Violet Concentrate 160 t/in (62 t/cm)
Soft Base Gold Concentrate 160 t/in (62 t/cm)	Soft Base Blue R Concentrate 160 t/in (62 t/cm)
Soft Base Orange Concentrate 160 t/in (62 t/cm)	Soft Base Black Concentrate 160 t/in (62 t/cm)
Soft Base Fluorescent Red Concentrate	Soft Base White Concentrate
160 t/in (62 t/cm) Soft Base Red Concentrate 160 t/in (62 t/cm)	160 t/in (62 t/cm)





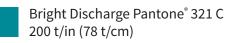




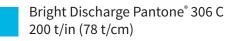
THE WATER BEARER

The Water Bearer reminds us to enjoy the good things in life and share the bounty with those around us. These psychedelic swirls are brought to you by Zodiac Aquarius Bright Discharge Base ZF.

PRINTING INFORMATION



Bright Discharge Pantone[®] 293 C 200 t/in (78 t/cm)





Bright Discharge Violet C 200 t/in (78 t/cm)

Bright Discharge Pantone[®] 360 C 200 t/in (78 t/cm)



PRINTING INFORMATION



High Solids Gray 225 t/in (88 t/cm)

High Solids White 225 t/in (88 t/cm)

FLASH

Base High Mesh Black

280 t/in (110 t/cm)

AQUANUAT

a soft, yet vibrant print.

280 t/in (110 t/cm)

Base High Mesh Pantone[®] Purple C

Base High Mesh Pantone[®] 293 C

High Solids White 280 t/in (110 t/cm)

280 t/in (110 t/cm)

Rather than explore the ocean's depths, our Aquanaut takes to the stars. This design showcases the Zodiac Aquarius High Solids and Zodiac Aquarius High Mesh systems working in conjunction to create

Base High Mesh Pantone® 185 C 280 t/in (110 t/cm)

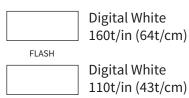




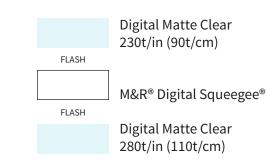
SEASONS CHANGE – FALL

Fall has been referred to as the second spring of the year, as leaves changing color are akin to flowers blooming. This design was inspired by the beauty of Autumn and weaves in the dual worlds of digital hybrid inks: screen printing ink and direct-to-garment ink.

PRINTING INFORMATION



FLASH





PRINTING INFORMATION



Soft Base Pantone® 155 C 160 t/in (62 t/cm)



Soft Base Pantone[®] 7581 C 230 t/in (90 t/cm)



Soft Base Black 230 t/in (90 t/cm)

THE LION SPECIAL EFFECT

The Lion symbolizes both strength and compassion, making Zodiac Aquarius Suede Base, with its durability and soft-hand feel, a natural fit for The Lion. Though few ever get close enough to feel the real thing, we hope this print provides a safer alternative.



Suede Base Pantone® 7411 C 200 t/in (78 t/cm)

Suede Base Pantone[®] 7414 C 200 t/in (78 t/cm)





THE MOON SPECIAL EFFECT

The pearl of the night's sky beams down on Earth, casting its reflection upon the tumultuous sea. The Moon utilizes the Zodiac Aquarius Pearl Base to mimic the luminous nature of this heavenly body both in the sky above and the waters below.



Pearl Base Light Blue[†]

Pearl Base Dark Blue* 80 t/in (31 t/cm)

† Light Blue = 0.2% Blue R Concentrate * Dark Blue = 5% Blue R Concentrate



PRINTING INFORMATION

FLASH

High Solids White 110 t/in (43 t/cm)

High Solids White 110 t/in (43 t/cm)

FLASH

THE MAGICIAN SPECIAL EFFECT

The Magician can take on many meanings depending on one's

perspective. Illuminating its true purpose often requires a closer look. Zodiac Aquarius Reflective Clear aims to shed light on the tricky nature

> High Solids Base – Cool Gray 6 C 160 t/in (62 t/cm)

Reflective Clear 86 t/in (34 t/cm)

FLASH

PRINTING INFORMATION

High Solids White 110 t/in (43 t/cm) 80 t/in (31 t/cm)

> Pearl Base Dark Blue* 80 t/in (31 t/cm)

FLASH

FLASH

FLASH

Pearl Base Light Blue[†]

of The Magician.

Zodiac[™] Libra[™] Silicone Inks for Textile Printing

PRODUCT DESCRIPTION

Zodiac[™] Libra[™] silicone inks have been developed to meet the sustainability requirements of the consumer while providing the desired high stretch and soft feel expected by brand owners and the printer.



BASES & ADDITIVES Zodiac Libra translucent, clear, matte and barrier bases are used in combination with additives designed to achieve soft hand, high stretch and other specific performance requirements. These bases and additives have been formulated to minimize bleed on fabrics that are prone to dye migration.



READY-FOR-USE INKS Black and White ready-for-use (RFU) inks designed for direct application, providing great stretch and flexibility.



PIGMENT CONCENTRATES

When printers need to meet specific color-matching criteria, concentrated Libra silicone color pigments are compatible with IMS 3.0 color matching formulas to provide a complete array of color choices.



SPECIAL EFFECT INKS

Libra silicone special effect inks are designed to enhance prints and differentiate designs. The extensive range of ready-to-use ink brings prints to life through the use of metallic, high density (HD) gel, and crystal clear gel coat, adhesive gel, among others.



REGULATORY SUPPORT The Zodiac[™] Restricted Substance List was designed to help ensure compliance with industry standards and is available for review when specific compliances are required.



GLOBAL REACH

Printers using Libra inks have access to a global manufacturing footprint and a vast distribution presence that enables them to service customers despite their location.





SCALES OF JUSTICE

The scales of justice represent balance, just as Zodiac Libra silicone inks strike a balance between strength and flexibility. This balance truly represents the duality exhibited by scales.

PRINTING INFORMATION

Ready-for-Use White

Matte Mixing Base Pantone® 1235 C

110 t/in (43 t/cm)

160 t/in (62 t/cm)

FLASH

FLASH



PRINTING INFORMATION



Matte Mixing Base Gray 110 t/in (43 t/cm)

Ready-for-Use White 160 t/in (62 t/cm)

FLASH

Matte Mixing Base Pantone® 185 C 160 t/in (62 t/cm)

FLASH

Matte Mixing Base Pantone® 139 C 160 t/in (62 t/cm)

Ready-for-Use White 160 t/in (62 t/cm)

THE SUN

The sun symbolizes essence, uniqueness and sense of self. Zodiac Libra silicone inks are defined by their stretch and recovery properties. Just as the sun salutation practice enhances flexibility in yoga, the recovery characteristic of Zodiac Libra inks give them their unique essence.



Matte Mixing Base Pantone® 108 C 200 t/in (78 t/cm)

Matte Clear Base 160 t/in (62 t/cm)

FLASH



THE CHARIOT

The Chariot demonstrates duality, or a connection of opposites. Overcoming obstacles by the will to persevere and the commitment to succeed, the chariot endures. Zodiac Libra silicone inks play upon the duality of properties and the sheer strength exemplified by the chariot.

PRINTING INFORMATION

Clear Gloss Base 110 t/in (43 t/cm) FLASH

FLASH

FLASH

Ready-for-Use White 120 t/in (47 t/cm)

Matte Mixing Base Pantone® 479 C 160 t/in (62 t/cm)

FLASH

160 t/in (62 t/cm)

Mixing Base Pantone® 4DZ Mardi Gras

Matte Clear Base 160 t/in (62 t/cm)



PRINTING INFORMATION



Matte Mixing Base Gray 160 t/in (62 t/cm)

Ready-for-Use White 110 t/in (43 t/cm)

FLASH

Silver Clear Gloss Base 135 t/in (53 t/cm)



Judgement embodies equilibrium. This symbol of justice wields protection and scales. Zodiac Libra inks boast protection from cracking, while also providing stretch characteristics to allow for freedom of movement.



Bronze Clear Gloss Base 135 t/in (53 t/cm)

Gold Clear Gloss Base 135 t/in (53 t/cm)

Zodiac[™] Taurus[™] Non-PVC Plastisol Inks for Textile Printing

PRODUCT DESCRIPTION

Zodiac[™] Taurus[™] non-PVC plastisol inks have been formulated to meet the sustainability requirements of the consumer while providing the durability and feel expected by brand owners and printers. This ink system is comprised of a combination of bases, additives, ready-for-use (RFU) and specialty inks that provide customers with non-PVC solutions that also afford the convenience and printability of traditional PVC plastisol ink systems.



BASES

Zodiac Taurus bases enhance performance, offering barriers and improved durability. The RFU barrier black ink can be used as an underlay for polyester, blends and digital sublimation fabrics. Stretch base inks increase flexibility when printed onto fabrics with inherent stretch, and the low crock base improves crock resistance.



INK MODIFIERS & ADDITIVES

Use bond, viscosity or rheology additives, such as thickeners, thinners and matte additives to improve abrasion resistance and toughness of ink film, and effect additives to achieve textured suede or high density (3D) effect.



READY-FOR-USE INK Discover a palette of 14 RFU mixing color inks, including fluorescents and silver and gold metallics. The cotton and low bleed white inks are available in standard and high opacity versions, are designed to be used as stand-alone white inks or in combination with the RFU mixing colors.



SPECIALTY INKS Achieve special effects and textures with Zodiac Taurus specialty inks. These inks add dimension and dazzling impact to any flat print.



REGULATORY SUPPORT The Zodiac[™] Restricted Substance List was designed to help ensure compliance with industry standards and is available for review when specific compliances are required.



GLOBAL REACH

Printers using Taurus inks have access to a global manufacturing footprint and a vast distribution presence that enables them to service customers despite their location.





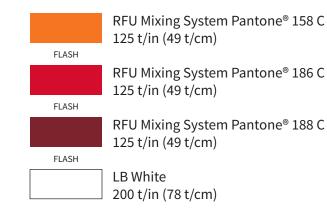
IGNITING TAURUS

Though the Taurus bull does not like change, printers using Zodiac Taurus non-PVC inks will find transitioning from plastisol inks pretty straightforward. Igniting the passion in screen printers, Zodiac Taurus Igniting Bull stampedes here to inspire!

PRINTING INFORMATION



FLASH





PRINTING INFORMATION



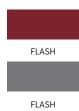
Barrier Black 83 t/in (32 t/cm)

LB White 156 t/in (61 t/cm)

FLASH

LB White 200 t/in (78 t/cm)

RFU Mixing System Pantone[®] 186 C 125 t/in (49 t/cm)



RFU Mixing System Pantone[®] 188 C 125 t/in (49 t/cm)

RFU Mixing System Pantone® Cool Gray 9 C 125 t/in (49 t/cm)



FLASH

____ 200 t/in (78 t/cm)

LB White

Metallic Silver 83 t/in (32 t/cm)

FLASH

BEYOND PLASTISOL

The Zodiac Taurus astronaut goes beyond plastisol, into the ecoconscious atmosphere of Zodiac inks. Prepare for liftoff with inks designed to help plastisol ink printers adopt non-PVC ink technology faster than the speed of light!





BULL STAMP

The Taurus constellation represents a bull's head. As a constellation connects stars to form a shape, Zodiac Taurus non-PVC inks provide a seamless connection between traditional plastisol inks and eco-conscious non-PVC inks.

PRINTING INFORMATION



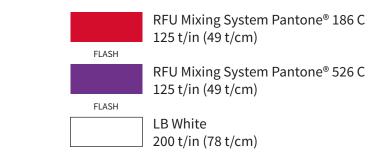
FLASH

FLASH

Barrier Black 83 t/in (32 t/cm)

LB White 156 t/in (61 t/cm)

LB White 200 t/in (78 t/cm)



To learn more about Zodiac Eco-Conscious inks, visit www.zodiacinks.com.

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