AQUARIUS WATERBASED



ZODIAC ECOCENTRIC INKS

PRODUCT INFORMATION BULLETIN

Aquarius™ High Mesh Range

RECOMMENDED PARAMETERS



Fabric Types

All fabric types



Mesh

Count: 230-320T/in (90-125T/cm) Tension: 18-35n/cm3



Squeegee

Durometer: 60-90-60 Profile: sharp, square

Stroke: x1 stroke, medium speed

Angle: 10-15%



Stencil

Water Resistant Emulsion Off Contact: 1/16" (2mm) Emulsion Over Mesh: 15-20%



Flash & Cure

Flash: Not recommended Cure: 90 seconds at 320°F (160°C)



Pigment Loading

Maximum 9%



Aquarius™ Additives

Aquarius™ Softener 1-5% Aquarius™ Thickener 0.1-1% Aquarius™ Retarder Gel 1-5%



Storage

Store in sealed containers 12 months from manufacture >40°F (5°C) <77°F(25°C)



Clean Up

Water & mild detergent



Health & Safety

Find SDS information here: www.avient.com/resources/safetydata-sheets or contact your local CSR Aquarius™ High Mesh range consists of a semi-opaque and clear base. Designed to achieve bright colors when printing high mesh tonal artwork onto a high solids or discharge underbase.

HIGHLIGHTS

High mesh counts up to 320T/in (125T/cm) mesh without drying on the screen

Prints wet on wet

Intense bright colors

PRINTING TIPS

If printing on dark backgrounds, print Aquarius™ High Mesh colors onto either Aquarius™ White HS underbase or Aquarius™ Bright Discharge White underbase.

Colors should be made in accordance with Aquarius™ IMS Pantone® mixing system with a maximum of 9% pigment loading to ensure crock performance is maintained.

✓ Use 230-320T/ (90-125T) mesh for best performance and color brightness

Print with 1/16" or 2mm off contact

Print one stroke

Prints wet on wet. Flash cure only required for underbase when printing on dark colors

Clean the stencil area when stopped to prevent screen blockages

Prints should be cured at 320°F/160°C for 90 seconds. Check the cure temperature at the ink surface.

Test all prints for color fastness and print durability before starting the production run.

COMPLIANCE

Water based, non PVC, non phthalate

Visit www.avient.com/products/screen-printing-inks/zodiac-aquarius for more information

PRECAUTIONS

The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications



AVIENT SPECIALTY

V3.02 (Modified: 23/04/2021)

2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not property are liable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES, FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.