



Aquarius™ High Solids Range

RECOMMENDED PARAMETERS

Fabric Types



100% Cotton. Synthetic fabrics and blends can also be used but may require Aquarius™ Migration Stop to prevent dye migration.

Mesh



Count: 86- 230T/in (34 -90T/cm)
Tension: 18-35n/cm3

Squeegee



60-90-60
Profile: sharp, square
Stroke: x2 stroke, medium speed
Angle: 10-15%

Stencil



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

Flash & Cure



Flash: 180°-200°F (80°-94°C)
Cure: Cotton: 90 seconds at 320°F/160°C
Polyester: 90 seconds at 305°F/151°C

Pigment Loading



Maximum 12%

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



SDS: www.avient.com/resources/safety-data-sheets or contact your local CSR

Aquarius™ High Solids range consists of a high opacity white, a clear base and a ready to use Migration Stop. Designed to provide maximum opacity and color brightness with a soft, flexible hand feel. When used in combination with Aquarius™ Water Based Pigments.

HIGHLIGHTS

- High Opacity
- Smooth, matte surface with no tack
- Excellent screen open time
- Excellent wash durability & crock
- Fast flash performance

PRINTING TIPS

- White can be used as stand alone white or as underbase or highlight white when printing on dark fabrics.
- Colors should be made in accordance with Aquarius™ IMS Pantone® mixing system with a maximum of 12% pigment loading to ensure crock performance is maintained.
- Use 86-230T/34-90T mesh screens for best performance and opacity.
- Pallets should be pre-heated to 140°F/60°C.
- Print with 1/16" or 2mm off contact.
- Print two strokes to ensure the mesh is clear and you have a good ink deposit.
- The Aquarius™ High Solids range has excellent re-wetting properties after stoppages. Cleaning the stencil area when stopped will prevent screen blockages.
- Use Aquarius™ Migration Stop as an underbase when printing on polyester/nylon fabrics and their blends to avoid dye migration.
- Cotton prints should be cured at 320°F/160°C for 90 seconds and polyester at 305°F/151°C for 90 seconds. Check the cure temp 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
INKS

V1.00 (Modified: 10/15/2020)