



Autoprint Formula Solution Pvt. Ltd.

# Alphafount HS 310

Versatile heat-set fount for brilliant results

February 2022

## Product Description

*Alphafount HS 310* is a FOGRA approved, specially formulated fountain solution for fast running heat set presses. This fountain solution is designed to provide top performance with traditional mineral oil as well as soya oil based-, metallic- and UV ink application.

A new biocide composition avoids bacterial contamination within the complete dampening circulation systems. The built-in corrosion protection inhibition provides additional security.

The low water uptake for dampening caused by this formula eliminating smearing, suppresses set-off, marking and slow drying. The pH at 4.8 to 5.2 gives brighter colors, faster starts and restarts that effectuates less wastage. It is designed to work in all types of dampening systems.

Besides the usual qualities of a modern fountain solution additive, like good clean-running features and low water damping a special conceived buffer formula prevents calcium carbonate deposits. Further the additive has a high concentration of plate protective raw materials.

## Features

- Built in corrosion protection (corrosion inhibiting additive)
- Formulated with high-performance anti-piling properties; to reduce press downtime
- Biocide protects against bacteria contamination
- Special surfactants allow to reduction of water: faster drying and higher density of the ink
- For use in all dampening systems: spray-, turbo-, brush systems
- Fast start up of the plate
- Active plate preservers: no oxidation of the plate after press stops
- Effective calcium blocker prevents calcium deposits on ink rollers: No glazing and roller stripping
- Very effective in controlling "dot gain"

## Technical data

To achieve the optimum performance, it is recommended that *Alphafount HS 310* fountain solution be used at 2,5% – 3,5 % dosage.

Conductivity of the press-ready solution will be approx. 1300 µS/cm (at 2,5%). To verify the conductivity of the press-ready solution, prepare a control sample using local water at the desired dosage. Record the pH and conductivity to serve as the performance target on press.

Physical properties	
Dosage	2,5 – 3,5 %
PH-value	4,60 - 4,65 concentrated, 5,00 - 5,50 thinning, depending on water quality and dosing
Conductivity	Approx. 1300 µS/cm, approx. 410 µS/1% addition in the fountain solution
Density	1,063 – 1,068 kg/l
IPA - dosage	0-5%



Autoprint Formula Solution Pvt. Ltd.

Compatibility of inks	
Conventional inks	yes
Metal inks	yes
UV-inks	yes

Compatibility of plates	
Thermal plates	yes
Violet plates	yes
Analog plates	yes

### Storage/handling/packing

Storage and handling	<ul style="list-style-type: none"><li>• No dangerous goods.</li><li>• Store at moderate temperatures (8 - 40°C).</li><li>• The usage of safety gloves is recommended.</li><li>• Keep container tightly closed.</li><li>• Keep away from direct sun light.</li></ul>
Shelf life	12 month after the date of manufacturing
Packing	20/200/1000 kg can/drum/container
Caution	avoid contact with skin and eyes

### Usage and product-instructions

To ensure an optimal tray life thoroughly clean the dosing circulation and feeding systems with fountain system cleaner and deglaze ink train and dampening rubber rollers before charging the press unit freshly mixed solution.

Ideal dilution depends on press speed, type of dampening system, type of ink and quality of paper. *Alphafount HS 310* fountain solution is designed to run at 2,5% – 3,5% dosage.

After establishing the working concentration, the conductivity and pH should be recorded. This data can then serve as an on-press quality control tool.

**Attention:** A too high or too low dosage of the additive may cause printing difficulties. The ink-water balance may be affected ending in dysfunctional ink split.

### Contact details

**AFOSOL** Autoprint Formula Solution Pvt. Ltd.  
Office: No 7, North Huzur Road, Coimbatore 641018  
Support: Phone +91 422 221 2416/+91 422 221 6750  
E-mail: [support@afosol.com](mailto:support@afosol.com)  
Webpage: [www.afosol.com](http://www.afosol.com)

