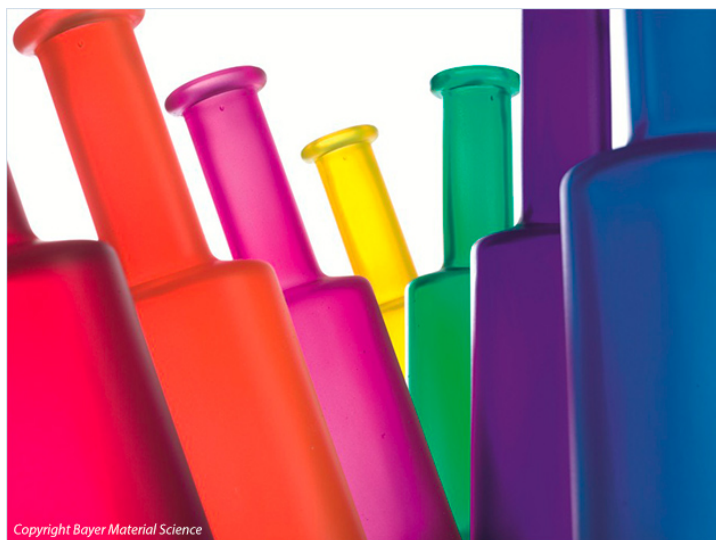


## Vaporizer System for Glass Surface Treatment

**The application of paint or labels to surfaces can be trickier than one would expect. Just as in applying paint to a wall in one's home, if the surface is not properly prepared the result will be less than perfect. A leading manufacturer of glass coating equipment was looking for a way to improve their coating process and increase their competitive advantage.**

The process involves driving HMDSO (Hexamethyldisiloxane) vapour through a flame for surface treatment of glass. The end result is obtaining a hard SiO<sub>x</sub>-like (Silicone Oxide) thin film leading to a more wettable surface prior to painting or labeling. Initially the customer had tried using a syphon tube in the liquid HMDSO source that sucked up liquid into the fuel stream and into the burner. This was unsuccessful as it resulted in a very unreliable liquid flow because liquid draw was based on gas velocity. Next, the customer tried using a bubbler system. With the bubbler the customer found that the vaporization changed with bubbler liquid depth, delta P, temperature, and other un-controllable factors. Also, neither of these two processes provided recordable data feedback, so variations in surface treatment could only be detected at final product QC.



### Recommended Products



EL-FLOW SELECT  
F-201CV



MINI CORI-FLOW



CEM EVAPORATOR W-102A