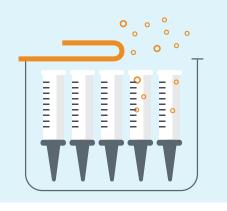


Preventing Particulate in Ready-to-Use Syringe and Vial Tubs

The Impact of Particulate Contamination

Particulate contamination can be tracked back to the lid and peeling process.



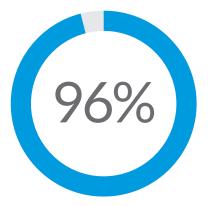
Particulate can impact a drug's solubility, stability and efficacy.



In patients, it can lead to blockages, embolism and organ damage.



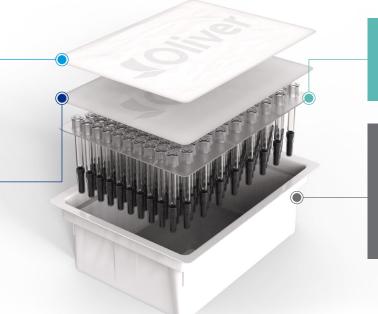
Oliver's Exclusive Xhale Coating Virtually Eliminates Particulate Contamination



Reduction in particulate achieved by **Xhale Hot-Melt Adhesives** compared to water-based alternatives from our competitors

How Oliver's Exclusive Xhale Works in Your System

XHALE-COATED LID



NEST

Reduces particulate while maintaining the sterile barrier.

OCLEAN INSERT LINER Captures particles when the lid is peeled open for syringe filling, protecting open syringes from loose particulate. Secures the syringes or vials.

TUB

Holds the filled nest. Its material, typically plastic, must be compatible with the lid's adhesive.

Ensure Safety & Efficacy with Oliver

Minimize particulate and increase confidence with this specialty coating from Oliver – your partner in production quality and consistency.

Find out more at www.oliverhcp.com/drugdelivery