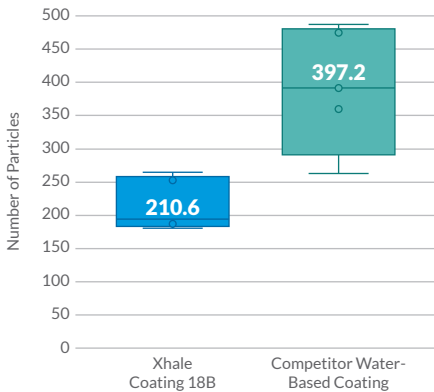




Oliver Coating Lowers Particulate for Syringe Tubs

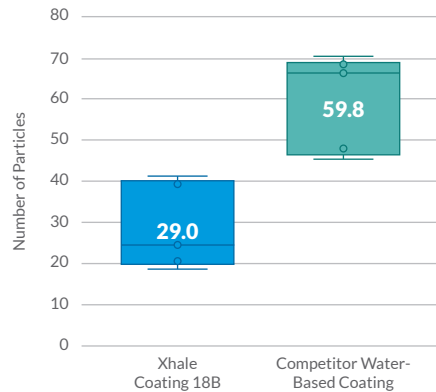
Oliver Healthcare Packaging recently completed a study to assess the airborne particulate generated during the peeling of coated Tyvek lids. Two different coatings were used in this study: one was Oliver Xhale[®] coating, and the second was a competitive water-based coating.

0.3 Micron Particulate Results



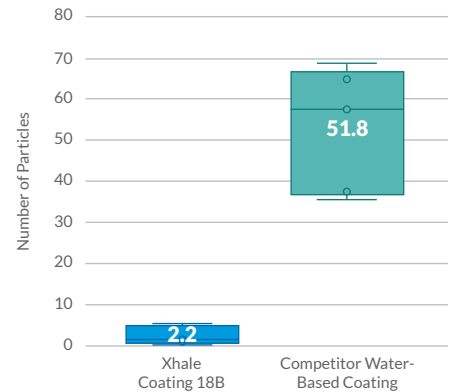
47%
Less Particulate

0.5 Micron Particulate Results



52%
Less Particulate

5.0 Micron Particulate Results



96%
Less Particulate

The study conducted does not consider Oliver's Oclean lids. The study used standard lidding manufactured under normal conditions. This study was performed in an ISO Class 7 clean room at a 3rd party certified laboratory, and utilized materials manufactured under normal conditions.

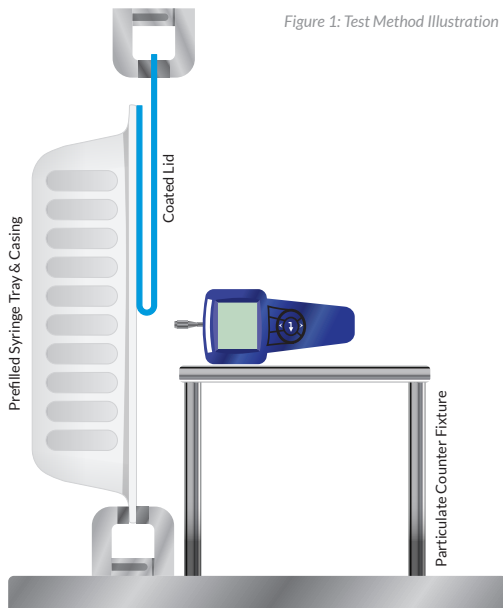


Figure 1: Test Method Illustration

Additional Benefits of Xhale[®] Coating

- ✓ Superior Abrasion Resistance (Low Particulate Generation)
- ✓ Uniform Seal Strength Over a Wide Sealing Window
- ✓ No Discoloration When Exposed to UV Light
- ✓ Dot Pattern Allows for Better Porosity
- ✓ Waterless System = Low Endotoxins