HOW TO USE ORBEOSEAL®

TO APPLY ORBEOSEAL, PERFORM THE FOLLOWING STEPS:

1. Teats should be clean and dry. If teats are not clean, CAREFULLY wash and dry them prior to disinfection.

2. Using an alcohol pad, physically clean the end of the teat to remove any contaminated skin, dirt or manure. Repeat until the pad remains clean.

3. Disinfect the far teats before the near teats to avoid accidental contamination of previously disinfected teats.

4. Insert OrbeSeal into the nearest teats first to minimize contamination of teats that have not been treated.

5. Insert the OrbeSeal syringe nozzle into the teat canal and SLOWLY infuse the entire contents of the tube into the teat.

6. After inserting OrbeSeal, mark the cow so others can tell she has been dried off. Then dip each teat with a quality teat dip.

Infuse OrbeSeal into each quarter slowly • Use one complete OrbeSeal tube per quarter • DO NOT massage OrbeSeal up into the quarter after infusion

TO REMOVE ORBEOSEAL, PERFORM THE FOLLOWING STEPS:

1. To effectively remove OrbeSeal, be sure to grab the top of the teat – where it meets the udder – and work all the way down to remove the bulk of the OrbeSeal.

2. For the first 3 days after calving, forestrip each quarter to remove most of the remaining OrbeSeal particles before unit attachment.*

3. Consider bucket milking for 3 days post-calving. This will reduce the amount of OrbeSeal particles that enter the main milking system.

IMPORTANT REMOVAL PRACTICE: At first milking, prior to unit attachment, vigorously forestrip all quarters of all OrbeSeal-treated cows. This will ensure that a minimal amount of OrbeSeal enters the milking system.

If you have any questions about OrbeSeal, please contact your local Zoetis Territory Manager or call Zoetis Technical Services at 1-800-461-0917.

* OrbeSeal particles may be present in the milk more than 3 days after calving.
# Pipeline Cleaning System Guidelines

## Cycle | Purpose | Temperature Range | Checklist
--- | --- | --- | ---
1st **PRE-RINSE** | • Removes milk solids and dirt  
• Warms milk line  
• Ensures detergent is not diluted during wash | ![Start](46-60°C (115-140°F))  
End (>36°C (>100°F)) | • Do not recirculate water  
• Temperature: Ensure water is not too hot  
  - A hot rinse will cook milk proteins onto surfaces

2nd **WASH**  
Chlorinated alkaline detergent | • Removes fat, protein, and other organics (i.e. bacteria) | ![Start](71-76°C (160-170°F))  
End (>43°C (110°F))  
>46°C (110°F) in large systems with meters | • Follow manufacturer directions  
• Cleaning solution:  
  - pH = 11-13  
  - Chlorine = 100-200 ppm  
• Water quantities:  
  - Depends on hardness – may need softener  
  - Length = 6-10 minutes  
  - Slugs = 20/wash  
  - Flow rate = 7-10 m/sec

3rd **ACID RINSE** | • Removes detergent  
• Prevents mineral build-up  
• Prevents bacterial growth  
• Maintains condition of rubber parts | ![>60°C (>140°F) Follow manufacturer recommendations](>60°C (>140°F)) | • pH = 2-3  
• Add acid rinse to cycle after each milking  
• DO NOT mix acid detergent with a chlorine-based product, as a toxic lethal gas could result

4th **SANITIZATION** | • Disinfects system prior to milking | ![43-60°C (100-140°F)](43-60°C (100-140°F)) | • Chlorine = 100-200 ppm  
• Run cycle no more than 30 minutes prior to milking  
• Time = 3-4 minutes

---


---

**QMP**

**Quality Medicine Program**

**Zoetis stands behind and provides comprehensive support for all of its products.**

For product support or technical questions, please contact your veterinarian and ask about the Quality Medicine Program.

---

Zoetis® and OrbeSeal® are registered trademarks of Zoetis or its licensors, used under license by Zoetis Canada Inc. © 2020 Zoetis Canada. All rights reserved.