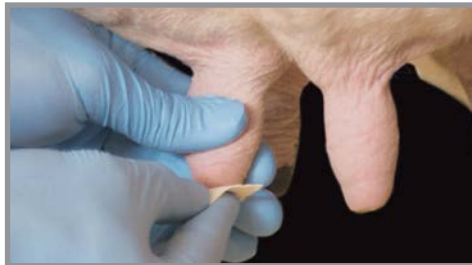


HOW TO USE ORBESEAL®

TO APPLY ORBESEAL, 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 ORBESEAL, 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 GUIDELINES¹



CYCLE	PURPOSE	TEMPERATURE RANGE	CHECKLIST
1st PRE-RINSE	<ul style="list-style-type: none"> Removes milk solids and dirt Warms milk line Ensures detergent is not diluted during wash 	<p>Start End</p>	<ul style="list-style-type: none"> Do not recirculate water Temperature: Ensure water is not too hot <ul style="list-style-type: none"> A hot rinse will cook milk proteins onto surfaces
2nd WASH Chlorinated Alkaline Detergent	<ul style="list-style-type: none"> Removes fat, protein, and other organics (i.e. bacteria) 	<p>Start End</p>	<ul style="list-style-type: none"> Follow manufacturer directions Cleaning solution: <ul style="list-style-type: none"> pH = 11-13 Chlorine = 100-200 ppm Water quantities: <ul style="list-style-type: none"> Depends on hardness – may need softener Length = 6-10min Slugs = 20/wash Flow rate = 7-10 m/sec
3rd ACID RINSE	<ul style="list-style-type: none"> Removes detergent Prevents mineral build-up Acid prevents bacterial growth Maintains condition of rubber parts 		<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Disinfects system prior to milking 		<ul style="list-style-type: none"> Chlorine = 100-200 ppm Run cycle no more than 30 minutes prior to milking Time = 3-4 minutes

¹ Adapted from Milk Quality Infosheet: Pipeline Cleaning System Guidelines. http://www.omafra.gov.on.ca/english/livestock/goat/facts/info_pipecl.htm



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.



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