

Title: Gas Flush Analysis

2.031

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Purpose: To ensure Wiskerchen Cheese Inc., is following specifications and requirements set forth by individual customers, head space analysis is available when specified.

Responsibility: All full time packaging employees; packaging department heads, and/or quality assurance manager.

- 1. A gas flush analyzer form can be found in the mail room, in the 3 three-ring binder above the copy machine.
 - a. Retail cup lines ...\WCI 7 Forms & Logs\7.078 Form Oxygen Analysis Record.xlsx
 - b. Conversion ... WCI 7 Forms & Logs 7.190 Form Oxygen Analysis Record Conversion.xlsx
- 2. Once the employee has found the master copy of the gas flush analyzer form, employee shall make a copy of it on the photo-copier.
- 3. After making a copy of the gas flush analyzer form the employee shall return the master copy to its original location.
- 4. Employees should make sure they are using the most up-to-date forms by checking the 3 ring-binder every time they need to make copies.

Calibration Frequency: Test the headspace analyzers:

- 1. At start-up
- 2. Every half hour for both Feta and Blue veined cheeses
- 3. With each product change
- 4. At the end of the product run

Calibration: Illinois Instrument Analyzer (large white analyzer)

- 1. Turn unit on and allow it to warm up for 10-15 minutes.
- 2. Auto-Calibrate the unit against the air in the room by pressing the green Start button.
- 3. Once the unit is done calibrating it will display a series of numbers. Write down the O2% number in the calibration target column of the gas flush analyzer record form. This number should be between 20.4 and 21.3%. If the number does not fall in this range you must recalibrate the unit. If the unit will not calibrate after 3 attempts contact the Department Head or Quality Assurance.

Calibration: Mocon Checkpoint 3 (small portable analyzer)

- 1. Turn unit on by pressing the red button on top.
- 2. When it reads 00 push the red button again with the needle held up into the air.
- 3. Once the unit is done calibrating write down the O2% number in the calibration target column of the gas flush analyzer record form. This number should be between 20.4 and 21.3%. If the number does not fall in this range you must recalibrate the unit. If the unit will not calibrate after 3 attempts contact the Department Head or Quality Assurance.

To measure the headspace in a package:

- 1. After calibration you are ready to measure headspace in the packaged units.
- 2. Push the sample needle through the seal on the package. Do not push the needle into any cheese.



Wiskerchen Cheese Inc. SOP

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- 3. Once the needle is inserted, 1) press the green button on the large white analyzer **OR** 2) the red button on the portable analyzer to start measuring the unit.
- 4. Once the measurement is complete the analyzer will display the 02% measurement.

Recording measurements:

- 1. Fill in the date, time, which line/machine, item being packaged, and O2% level measured.
- 2. Take measurements of 4 samples every half hour.
- 3. Initial to indicate who performed the measurement.

Measurement Specifications

Maximum allowable limits for each line/machine are as follows:

- 1. Retail/Cup Line 5.00%
- 2. Multivac Machine 3.00%
- 3. Tray Machine5.00%

If any product has measurements that exceed the above limits, test 3 packages and record the average of the three tests. If the average result from the 3 packages is still above the maximum allowable limit you need to contact your packaging supervisor.

Approved By: _____

Date: _____