

## MATERIAL SPECIFICATION

CAHOON FARMS PROCESS CODE: 52

MATERIAL: IQF 3/8"x3/8"x1/2" DICED APPLE- ASCORBIC ACID TREATED

(Individually Quick-Frozen Diced apples)

#### **DESCRIPTION**

Apple dices are prepared from sound and properly ripened apples. The apples possess similar varietal characteristics, which include good flesh color, character and flavor. The apples are practically free from defects (damaged units), free of rot, decay and other foreign materials. The fruit is washed prior to processing. The fruit is cored, trimmed, diced, sorted, washed, drained and vacuum processed. The fruit remains in the vacuum solution for a length of time required for good penetration (length of time will depend on apple maturity) to comply with established residual levels. The fruit is properly drained after vacuum processing to ensure the dices do not have an excessive coating of vacuuming juice solution. The fruit is inspected throughout the production process to remove defective pieces. The fruit is rapidly handled prior to freezing and packaged promptly after the freezing.

Apples are processed within a diameter range of 2  $\frac{1}{2}$ " to 4  $\frac{1}{2}$ ". This results in variation of finished product dimensions.

Ascorbic acid and citric acid are the primary preservatives used to control browning. Salt is used to enhance flavor.

# GENERAL REQUIREMENTS

- The product complies with all provisions of the Federal Food, Drug and Cosmetic Act.
- The product is frozen in accordance with good commercial practice (21 CFR 117) and maintained at temperatures necessary for the preservation of the product and to eliminate excessive blockage.
- Apple grading is in accordance with The United States Department of Agriculture Standards for frozen
  apples but modified to provide more statistically accurate assessments with reporting categories that
  provide for quantitative measurements rather than subjective evaluations.

#### **ALLERGEN INFORMATION**

Cahoon Farms does not process any product with currently known allergens (Milk, eggs, peanuts, tree nuts, fish, shellfish, soy, wheat, sesame).

The facility does have sensitizing agent (Sodium Metabisulfite) within the production facility. We have a working prevention and cross contamination policy and procedure.

#### **GENETICALLY MODIFIED MATERIALS POLICY**

Cahoon Farms does not use or intend to use Genetically Modified Materials. This product is non-GMO certified through the Non-GMO project

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# **DEFINITIONS**

Confidential	This Specification prepared and submitted by Cahoon Farms Inc. is considered a trade secret and is covered by non-disclosure agreements				
Diced	Apples cut into cubes. The dicers are set up to produce the size dice requested by the customer. Apples are spherical and vary in size. Not all dices will be the same size or an exact cube. Dices are cut after peeling and coring of the apple.				
Good Color	Apple possesses a reasonably uniform bright color characteristic of the variety.				
Uniformity	The degree of wholeness and the consistency of cube size of the apple.				
Good Character	Means that the apples possess a reasonably uniform texture, are firm but not hard.				
Harmless Extraneous Material	Any vegetable substance that is harmless including, but is limited to a stem, or portion thereof and blossom ends.				
Seeds & Leaves	A Subcategory of HEM, defined separately to provide a more appropriate tolerance for this category. This category includes seeds, leaves or portions thereof and cores or portions of cores.				
Light Blemish & Peel	Small pieces of Peel or Light Blemishes that do not distract from the eating quality but do appear different from the normal flesh color.				
Dark Blemish	Non-harmful material that seriously distracts from the appearance and/or the eating quality of the apple dice				
Carpel Tissue	A tougher vegetative material surrounding the seeds in the core of an apple				
Foreign Material	Any material(s), not described above, whose quantity and presence is unanticipated by the customer or consumer purchasing the product and/or the regulatory body that has jurisdiction over the processing and distribution of the product.				
Sample	All samples are one container, unless otherwise noted and drawn from the production line every 2,000 pounds produced.				
Lot	A Lot consists of 40,000 pounds of production				

# PHYSICAL REQUIREMENTS

# Samples taken every pallet, reported as a lot average

Test	Specification
Light Blemish & Peel	Not more than 5% by weight of the total sample of dices possessing Light Blemish or Peel that is 3/8 inch in diameter or in aggregate area of the dice
Dark Blemish	Not more than 1% by weight of the total sample of dices possessing a Dark Blemish.
Carpel Tissue	Not more than 1/2 square inch aggregate area in a 32-ounce sample
HEM	Maximum of 15 blossom ends and stems per 300 pounds sampled (with a target of 10 hem per 400 pounds sampled
Seeds & Leaves	Maximum of 15 per 400 pounds sampled

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## Samples taken every other pallet (reported as a lot average)

Test	Specification	Unit	Method	Notes	
Raw Shear	250-800	psi	Measured on Mecmesin		
			MultiTest5-z)		
Ascorbic Acid	150-250	ppm	AOAC Method 967.21	residual in apples; tested after	
				freezing and thawing	
Citric Acid	0.6 - 0.8	%	AOAC Method 940.15	in preserving solution	
Salt	1.5 - 2.0	%	AOAC Method 971.19	in preserving solution	
Sulfite	Negative		Quantofix Sulfite test		
			strip		

### Results Reported once per lot (reported as a lot average)

Test	Specification	Unit	Method	Notes
Pressure	12 - 20	PSI	Measured on a FTA-GS14 Electronic Penetrometer	average from 30 apples, 3 apples from 10 different bins
Aerobic Count	10,000	cfu/ gram		
Total Coliforms	20	cfu/ gram		
Yeast/mold	5,000	cfu/ gram		
E. Coli	<10	cfu/ gram		
Salmonella	Negative	cfu/ 25 g		

All chemical and microbiological analysis listed above are conducted in accordance with "Standard Methods of Analysis "as listed in the Bacteriological Association Manual (BAM) of the Federal Food and Drug Administration, or other recognized standard publications, unless otherwise indicated. Microbiological samples are tested on a Biomerieux Tempo and Mini-Vidas.

#### PACKAGING REQUIREMENTS

- 1. Corrugated fiberboard boxes (40-pound finished product weight)
- 2. Polybag liner in each box (1.5 Mil in contrasting color to packaging and product)
- 3. Box sealed with colored tape
- 4. Every pallet has layer board between wooden pallet and product containers
- 5. Every pallet has cardboard layer on top layer of product containers
- 6. Complete stretch wrap of each pallet
- 7. Each container will be clearly marked with:
  - \* Production Lot Code
  - \* Product Name
  - \* Date of Manufacture
  - \* Customer Reference Number if applicable
  - \*Ingredient Statement
  - \* Packer Name and Address
  - \* Net Weight
  - \* Kosher Symbol
- 8. Cut type: dice
- 9. Stacking: 50 boxes/pallet (5 layers of 10 boxes)
- 10. Box Dimensions: 15.13"L x 11.11" W x 12.25" H
- 11. Full Pallet Dimensions:48" L x 40" W x 66" H
- 12. Full Pallet Product weight 2,000 lbs.

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#### INGREDIENT STATEMENT

Apples, Salt, Ascorbic Acid, Citric Acid, Calcium Chloride

### **STORAGE**

• The product must be stored at -5 °F or below

### SHIPPING REQUIREMENTS

- Product will be moved in a clean, well-maintained, insulated trailer with mechanical refrigeration.
- Transported at 0° F or below.
- Trailer inspection report will be available for each shipment.
- The bill of lading shall contain the production lot code, and if applicable, the trailer seal number

# THAWING PROCEDURES

It is highly recommended that the product is not thawed before product manufacturing. Ascorbic acid is a preservative with a high sensitivity to oxygen, light, heat, excessive air movement, maintenance temperature and storage conditions all of which have a definite impact on the thawing procedure to be used for each product. If thawing is required, it is imperative that specific procedures be developed to preserve the integrity of this raw material.

#### LOT CODING

Each Cahoon Farms container is labeled with a five-part numerical lot and product information code. Example:

Lot # AAA-BB-CC-DD EEE

AAA – is a consecutive numerical lot number

BB- is a 2-digit number representing the fruit and variety

CC- Is a 2-digit number representing the process code---the specific processing style and ingredients

DD- represents the year the apples were picked

EEE - is a 3-digit number representing the specific box/ pail number within that lot.

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