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USDA COMMODITY REQUIREMENTS DOCUMENT

DMOZ4 MOZZARELLA CHEESE

FOR USE IN DOMESTIC PROGRAMS

Effective Date: September 18, 2013

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Part 1 COMMODITY SPECIFICATIONS

Section 1.1 MOZZARELLA CHEESE REQUIREMENTS

A. Quality of Product

- (1) Except as otherwise required, the natural Mozzarella cheese shall comply with the appropriate definition and standard of identity, and all regulations issued pursuant to the Federal Food, Drug, and Cosmetic Act, relevant to cheese (21 Code of Federal Regulations (CFR) Parts 1-199, including Parts 133.155 through 133.158, as appropriate for the type of Mozzarella cheese specified in the solicitation.
- (2) The Lite Mozzarella Cheese shall conform to the Commercial Item Description (CID) A-A-20248B dated September 9, 2008, which is available at http://www.ams.usda.gov/AMSv1.0/getfile?dDocName=STELDEV3006740

B. Production Requirements

- (1) The Mozzarella cheese delivered to the Government shall have been manufactured from pasteurized milk that was produced in the United States and not previously owned by the Government, and in plants that were inspected and approved by the Dairy Grading Branch, Dairy Programs Division, Agricultural Marketing Service (AMS). The USDA AMS plant approval code must match the appropriate product or operation code for the commodity being offered.
- (2) The curd manufacturing shall be performed at the same plant as the mixing and molding.
- (3) Mozzarella cheese which deviates from the specifications and the schedule of discounts contained herein will be rejected, or at the discretion of the contracting officer, accepted at discounts to be determined by the Government.
- (4) Notwithstanding the other provisions of this section, the presence of any extraneous material in the Mozzarella cheese will be the basis for rejection.
- C. Product Age and Temperature Requirements
 Low Moisture Part-Skim and Lite Mozzarella cheese product age and temperature requirements shall comply with the following:

Requirement	Description	
Aging	Mozzarella cheese shall be aged not less than 5 days and not	
	more than 15 days at 38° to 42° F (3.5° to 5.5° C), unless the	
	mozzarella is manufactured and immediately shredded and	
	frozen. (i.e. Individual Quick Frozen [IQF])	
Testing and	Immediately after the aging process is completed, the	
Inspection	following shall be performed:	
	 Product samples pulled and submitted for product 	
	testing; and	
	Physical analysis.	

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Requirement	Description
Frozen	Immediately after physical analysis is completed, cheese shall be placed in a freezer and the product temperature reduced to 20° F (-6.7° C) within a 24-hour period and held at such temperature until delivered.
	Exception : If such freezer space is unavailable at the manufacturing plant, the contractor may transport the cheese to a freezer facility at another location provided that the shipment to such facility is completed within 24 hours after the physical analysis is completed. During transportation, the cheese must be maintained at temperatures not higher than 35° F (1.7° C). Contractors are cautioned to take care that the cheese is not crushed or misshaped during the transport from the plant to the freezer facility. Once the cheese is delivered to the alternate facility, it shall be placed in a freezer and the product temperature reduced to 20° F (-6.7° C) and held at such temperature until delivered.
	Mozzarella cheese may be manufactured and frozen prior to offering to the Government. All frozen cheese may not be more than 180 days old on the date of delivery based on the date of manufacture as shown.
Chilled – Processor Pack	Cheese to be delivered chilled shall be maintained at a temperature between 32° to 36° F (0° to 2.2° C) after the physical analysis has been completed. All chilled cheese shall be delivered within 19 days of manufacture date.
Chilled – String Cheese	String cheese to be delivered chilled shall be maintained at a temperature between 33° - 45° F (0.55° - 7.22 ° C). All chilled cheese shall be delivered within 15 days of manufacture date.

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D. Composition Requirements

Low Moisture Part-skim Mozzarella and Lite Mozzarella cheese composition requirements shall comply with the following:

Composition	Low Moisture Part-skim Mozzarella	Lite Mozzarella
Milk fat %	Greater than or equal to 30% but less than 45% by weight of the solids	Not more than 10.8% (as marketed)
Moisture %	Greater than 45%, but equal to or less than 50%	Range 52.0% - 60.0%
Salt (for all mozzarella excluding string cheese)	Range 1.0% - 1.5%	Range 1.0% - 1.5%
Sodium (for all mozzarella excluding string cheese)	No more than 185 mg of Sodium per 28 g serving	No more than 185 mg of Sodium per 28 g serving
Sodium for String Cheese	No more than 200 mg of Sodium per 28 g serving	No more than 200 mg of Sodium per 28 g serving
pH value ¹ (for all mozzarella excluding string cheese)	Range 5.0 – 5.4	Not to exceed 5.3
pH value ¹ (for string cheese only)	Range 5.0 – 5.5	Not to exceed 5.4

E. Physical Analysis

The following physical attributes are required for Low Moisture Part-Skim (LMPS) and Lite Mozzarella cheese:

General Requirements			
Physical Attributes	Description for all Mozzarella		
	Unless Specifically Noted		
Flavor and Odor	Shall have a mild pleasing flavor and may possess a slight acid and slight feed flavors, but not possess any undesirable flavors or odors. Nine conflavor will not be acceptable.		
Color	 Vinegar flavor will not be acceptable. Shall have a natural white to light cream, uniform bright color, and an attractive sheen. The loaf style may possess waviness to a very slight degree and may have a slight variation in color due to salt penetration. 		

¹ If a re-test of the product is required, the quinhydrone method will be used by AMS laboratories.

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General Requirements		
Physical Attributes	Description for all Mozzarella	
	Unless Specifically Noted	
Body and Texture	 Loaf style: A slice or plug drawn shall be flexible. (Except for lite mozzarella.) Shall be smooth and pliable, and shall not possess 	
	 sweet holes or be gassy. Shall be free from all foreign and extraneous materials 	
	 May possess the following defects to a slight degree: open lacking flexibility mealy weak 	
	Note : Lite mozzarella may also be sticky and rubbery to a slight degree.	
Meltability	 When a pizza baked in a preheated conventional oven at 425F for 12 minutes and a pizza baked in an impinger oven at 475F for 6 minutes, the cheese must: melt completely; not exhibit shreds of unmelted cheese or excessive blistering; any blistering must be light brown in color stretch to a minimum of 3 inches of unbroken string; and 	
Appearance	- be chewy, but not gummy. Meltability not applicable for string cheese. No visible signs of mold.	

Additional Shredded Requirements		
Body and Texture	 May also be coarse and pasty to a slight degree. Shall be shredded to a nominal height and width of: 	
	 1/8 inch x 1/8 inch 1/16 inch x 1/16 inch 	
	 Length of 1/8 inch to 1 1/2 inches. Shall be loose and free from clumps except those that readily break up with slight pressure. 	
	• Shall be free flowing and shall not be matted. An approved anti-caking agent may be used as a processing aid. If an anti-caking agent is used, the	

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Additional Shredded Requirements		
A	-	
	amount used shall be the minimum required to produce the desired effect, but shall not exceed	
	2.0% of the weight of the cheese.	
Fines • Shall contain not more than 8.0% fines.		
	• Fines shall be tested using a U.S. Standard Test	
	Sieve:	
	- #8 for a size greater than 1/16 inch x 1/16	
	inch shreds.	
	- #14 (1.4 mm) for 1/16 inch x 1/16 inch	
	shreds or less.	
Additional String Cheese Requirements		
Body and Texture	Shall be an extruded product.	
	 Protein strands shall be properly aligned 	
	lengthwise to ensure that fibrous strings can be	
	pulled from the string.	
	Shall be pliable and elastic so that string can be	
	bent without breaking upon itself.	
	Texture shall be firm and rubbery.	
Appearance	 Shall be somewhat glossy, smooth and shiny. 	
Size	• Shall be cylindrical and have a length of 3.875 to	
	4.752" and a diameter of 0.375 to 0.729"	

F. Liability

- (1) Frozen Cheese The contractor shall be liable for losses due to excessive deterioration, mold development, or spoilage, which are discovered within 180 days of the date of delivery to the Government.
- (2) Unfrozen Cheese (processor pack) The contractor shall be liable for losses due to excessive deterioration, mold development or spoilage which are discovered within 30 days of the date of delivery to the Government.
- (3) Unfrozen Cheese (string cheese) The contractor shall be liable for losses due to excessive deterioration, mold development or spoilage which are discovered within 90 days of the date of delivery to the Government.

Section 1.2 QUALITY ASSURANCE

The contractor or AMS shall perform the product testing and quality analysis to ensure that the product meets the commodity specifications. *The Contractor shall only tender for acceptance those items that conform to the requirements of this contract.* The quality, date(s) of manufacture, and weight of the cheese shall be evidenced by a Certificate of Analysis (COA) maintained by the contractor. The COAs shall be issued by AMS, an independent commercial laboratory using AOAC International approved methodology, or the contractor's laboratory that complies with the inspection clause of this contract. The contracting officer may require submission of COAs representing

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contract performance. The manufacturer/distributor shall also certify that the cheese provided conforms to their own specifications, standards, and quality assurance practices, and be the same cheese offered for sale in the commercial market. Contractors shall notify the Government immediately of lots that fail to meet contract requirements.

Section 1.3 WEIGHT REQUIREMENTS

The mozzarella cheese delivered shall be packaged as indicated in the table below.

Type of Mozzarella	Shredded, Frozen or	Net Weight Packaging
	Chilled	Options
Low Moisture Part Skim	Shredded, Frozen	30 pound box
(LMPS)	Frozen	8/6 pound loaves
	Chilled, Processor Packs ²	200/5 pound tote
		120/6 pound tote
		96/10 pound tote
		96/12 pound tote
		60/20 pound tote
		48/20 pound tote
		72/20 pound tote
	Chilled, String Cheese	360/1 oz
Lite	Shredded, Frozen	30 pound box
	Frozen	8/6 pound loaves

Part 2 CONTAINER AND PACKAGING REQUIREMENTS

Section 2.1 GENERAL

This part provides the container specifications and packaging materials requirements used under this contract.

Section 2.2 COMMERCIAL PACKGING REQUIREMENTS

- A. Contractors shall supply commercial brand products only and shall certify at the time of submission of an offer that the commercial product being delivered has a history of successful distribution and use in domestic commercial channels and is sold on the commercial market with an established level of consumer acceptance.
- B. Container and packaging requirements are those used in the current commercial shipping practices and shall comply with:
 - (1) Unitization requirements in Section 2.4.
 - (2) At contractor's option, a statement such as "Not for Retail Sale" may be printed on the principal display panel of the food label.
 - (3) The manufacturer's lot code/lot identification number shall be shown on the commercial bill of lading.

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² Chilled LMPS Mozzarella shall be packaged in totes (master bag). Cheese packaged in totes CANNOT be individually wrapped.

- (4) Shipping containers shall be marked to show the maximum safe stacking height. It is the responsibility of the contractor in cooperation with the shipping container manufacturers to determine the safe stacking height.
- (5) For identification upon receipt at delivery warehouses, all commercial-labeled product shipping documents shall specify "FOR USDA FOOD DISTRIBUTION PROGRAMS."
- C. A company name or brand name shall be shown on all shipping containers.
- D. String cheese shall be individually wrapped, peel open packs.

Section 2.3 CONTAINERS AND MATERIALS

- A. All containers and packaging shall be constructed to meet the requirements of the Food and Drug Administration (FDA) for safe contact with the packaged product. The contractor shall obtain and maintain documentation from the container or packaging material manufacturer to verify that the containers and packaging materials used in this contract were in compliance with the Government's regulatory requirements for safe contact with food products as required below:
 - 1. Regulatory Requirements for Commodities and Packaging
 - 2. The commodity shall conform to the applicable provisions of the "Federal Food, Drug, and Cosmetic Act" (21 U.S.C. 301 et. seq.), as amended, and the relevant regulations. The contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations related to its performance under this contract.
 - 3. All containers and packaging materials shall be constructed to meet the requirements of the Food and Drug Administration for safe contact with the packaged product.
 - 4. In addition, all containers and packaging materials shall be constructed to comply with the sum concentration levels of lead, cadmium, mercury, and hexavalent chromium addressed by the Coalition of Northeast Governors (CONEG) model legislation. The sum of the concentration levels of lead, cadmium, mercury, and/or hexavalent chromium present in any package or packaging component shall not exceed 100 parts per million. Concentration levels shall be determined using American Standard of Testing Materials test methods, as revised, or U.S. Environmental Protection Agency test methods for evaluating solid waste, S-W 846, as revised.

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B. If the contractor purchases packaging and container ingredients from a foreign country and/or the package and container is manufactured in a foreign country, the package and container SHALL NOT display country of origin labeling. Phrases similar to but not inclusive of, "Made in [Name of Foreign Country.]" or "Product of [Name of Foreign Country.]" are strictly prohibited.

Section 2.4 UNITIZATION REQUIREMENT

Shipments shall comply with the following unitization requirements:

- A. Unless otherwise specified by the Government, all shipments of packaged products shall be unitized (palletized and stretch wrapped).
- B. Pallets shall be:
 - (1) Constructed to facilitate the safe handling and transportation of the packaged product, as a unit, without loss or damage.
 - (2) A Number 2, four-way, reversible flush stringer with no broken runners or slats
 - (3) Suitable for use in the shipment of food products.
- C. Plastic stretch wrap shall be:
 - (1) Constructed of a plastic film which is to be stretched a minimum of 50 percent beyond its original length when stretched around the pallet load.
 - (2) Applied as tightly as possible around all tiers of the palletized shipping containers. The shipping containers shall be held firmly in place by the stretch wrap.
- D. Pallet loads shall be:
 - (1) Stacked in such a way as to minimize the amount that shipping containers overhang the edges of pallets.
 - (2) Blocked and braced or otherwise loaded into the conveyance in a manner that prevents shifting during transit.

Section 2.5 MONTH/YEAR OF PACK

- A. The month/year of pack shall be shown on all shipping containers.
- B. A date fill code may be applied in addition to, but not in lieu of, the month/year of pack.

Section 2.6 LOT CODE/CERTIFICATE NUMBER

A lot code or official inspection certificate number shall be legibly marked on all primary shipping materials. Contractors may use any type of lot coding system, provided a unique code is used to identify each lot under a contract. When requested contractors shall provide to the Government an explanation of the lot coding system utilized.

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