USDA COMMODITY REQUIREMENTS

BWSF10 BULGUR / SOY FORTIFIED BULGUR FOR USE IN EXPORT PROGRAMS

Effective Date: 05/18/07

USDA COMMODITIY REQUIREMENTS BWSF10 BULGUR / SOY FORTIFIED BULGUR FOR USE IN EXPORT PROGRAMS

Table of Contents

Part 1	COM	MODITY SPECIFICATIONS	1
Section	1.1	BULGUR REQUIREMENTS	1
Section	1.2	SOY-FORTIFIED BULGUR REQUIREMENTS	3
Section	1.3	SOY-FORTIFIED BULGUR, CRACKED REQUIREMENTS	5
Section	1.4	SOY GRITS, DEFATTED (TOASTED) OR EXPELLER	6
Section	1.5	QUALITY ASSURANCE	
Section	1.6	QUALITY DISCOUNTS	
Part 2	CON	TAINER AND PACKAGING REQUIREMENTS	9
Section	2.1	GENERAL	9
Section	2.2	CONTAINERS AND MATERIALS	
Section	2.3	50-KILOGRAM WOVEN POLYPROPYLENE BAGS	10
Section	2.4	SEWING OF BAG SEAMS	
Section	2.5	PERFORMANCE TEST PROCEDURES	11
Section	2.6	TEST FREQUENCY	12
Part 3	MAR	RKING REQUIREMENTS	13
Section	3.1	MARKINGS	13
Section	3.2	MARKING DESCRIPTIONS	14
Section	3.3	EMPTY BAG DIMENSIONS	
Section	3.4	CONTAINERS WITH INCORRECT MARKINGS	16
Exhibi	t A		18
Exhibi	ts SM		19

Part 1 COMMODITY SPECIFICATIONS

Section 1.1 BULGUR REQUIREMENTS

- A. The bulgur will be milled from wheat of any of the classes defined in the "Official United States Standards for Grain" except mixtures of wheat of contrasting classes. The wheat shall not contain more than 4.0 percent of damaged kernels. The grain standards are available at:

 http://www.gipsa.usda.gov/GIPSA/webapp?area=home&subject=grpi&topic=sqous.
- B. Wheat shall be tested for vomitoxin in accordance with procedures approved by Federal Grain Inspection Service (FGIS) and any wheat testing higher than 2 p.p.m. shall not be used in production of the commodity. The final product shall not contain more than 1 p.p.m. of vomitoxin.
- C. The product shall conform to the requirements in the table below.

Chemical and Physical Requirements¹ Bulgur

Item	Requi	rements
	Minimum	Maximum
Moisture		11.5%
Protein (Nx5.7) ²	9.3%	
Crude Fiber ²		2.3%
Foreign Material: Other grains except wheat		0.10%
Material except other grains ³		0.10%
Scorched particles (whole or pieces of kernels)		0.20%
Ungelantized particles (whole or pieces of kernels)		1.0%
Whole processed kernels remaining on No. 8		4.0%
woven-wire-cloth sieve		
Material that will pass through a U.S. Standard No.	80.0%	
8 woven-wire-cloth sieve		
Material that will pass through a U.S. Standard No.		18.0%
14 woven-wire-cloth sieve		
Material that will pass through a U.S. Standard No.		0.9%
30 woven-wire-cloth sieve		

BWSF10 Page 1

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¹ All percentages are on the basis of weight.

² These limiting values are on a moisture-free basis.

³ Including grain hulls either attached or detached. However, any hulls attached to product should be detached before inclusion in the hull fraction.

Bulgur⁴

Calcium	Max. Ash	Calcium	Max. Ash	Calcium	Max. Ash
Mg/lb.	Percent	Mg/lb.	Percent	Mg/lb.	Percent
340-358	2.18	649-666	2.35	957-974	2.52
359-376	2.19	667-684	2.36	975-993	2.53
377-394	2.20	685-702	2.37	994-1011	2.54
395-412	2.21	703-720	2.38	1012-1029	2.55
413-430	2.22	721-739	2.39	1030-1047	2.56
431-448	2.23	740-757	2.40	1048-1065	2.57
449-466	2.24	758-775	2.41	1066-1083	2.58
467-485	2.25	776-793	2.42	1084-1101	2.59
486-503	2.26	794-811	2.43	1102-1120	2.60
504-521	2.27	812-829	2.44	1121-1138	2.61
522-539	2.28	830-847	2.45	1139-1156	2.62
540-557	2.29	848-866	2.46	1157-1174	2.63
558-575	2.30	867-884	2.47	1175-1192	2.64
576-593	2.31	885-902	2.48	1193-1210	2.65
594-612	2.32	903-920	2.49	1211-1228	2.66
613-630	2.33	921-938	2.50	1229-1247	2.67
631-648	2.34	939-956	2.51		

D. Product Enrichment Requirements

The product must be blended thoroughly and homogeneously mixed with calcium and other listed enrichment ingredients (1/2 oz./cwt. feed rate) in the following proportions.

Bulgur

2 4-8			
	Requirements		
Item	Minimum	Maximum	
Thiamine	2.0 mg/lb	3.0 mg/lb	
Riboflavin	1.2 mg/lb	1.8 mg/lb	
Niacin or niacinamide	16.0 mg/lb	24.0 mg/lb	
Vitamin A-Palmitate ⁵	8,800 IU/lb		
Calcium (in harmless and assimilable form)	500 mg/lb	750 mg/lb	
Iron (reduced iron, 325 mesh, to be used in the iron source) ⁶	13.0 mg/lb	26.0 mg/lb	

⁴ Bulgur, prior to calcium enrichment, may not have an ash content exceeding 2.00 percent on a moisture-free basis.

⁵ Vitamin A-Palmitate (stabilized) shall be added in encapsulated form containing 250,000 IU Vitamin A-Palmitate/g. Particle size shall comply with the requirement that at least 98 percent will pass through a U.S. Standard No. 50 sieve, at least 90 percent through a U.S. Standard No. 60 sieve, and at least 45 percent through a U.S. Standard No. 100 sieve. The product shall not be less than 95 percent of the all-trans isomer as determined by the USP assay procedure. The Vitamin A-Palmitate shall have storage stability such that not more than 20 percent of its original activity will be lost when stored for 21 days at 45° C in a sealed container at a target level of 11,000 IU per pound in cornmeal or wheat flour having moisture content in the range of 13.5 to 14.5 percent.

⁶ Ferrous sulfate is not to be used as the iron source in any processed cereal products purchased for export assistance programs.

E. Flavor Stability

When used for fortifying bulgur at the level of 8,800 IU per pound, the Vitamin A Palmitate preparation shall contribute no off-flavor or odor to the dry mix, or to the prepared cooked products.

- (1) The Vitamin A shall have been tested by the vitamin manufacturers in cornmeal or wheat flour having moisture content in the range of 13.5 to 14.5 percent to assure stability of the vitamin.
- (2) If cornmeal is used for the stability test, the cornmeal used shall be enriched degermed yellow cornmeal, fine granulation, conforming to requirements of the latest revisions and amendments for Commercial Item Description A-A-20066A (August 14, 2002) at http://www.ams.usda.gov/fqa/aa20066A.htm. The cornmeal will be Type III, Class B, Granulation c, Color 2. The cornmeal shall be enriched to contain: 2.0 to 3.0 mg thiamine per pound; 1.2 to 1.8 mg riboflavin per pound; 16.0 to 24.0 mg niacin or niacinamide per pound; 13.0 to 26 mg iron per pound; and 500 to 750 mg calcium per pound.
- (3) If wheat flour is used for the stability test, the flour shall be of 65 to 75 percent extraction and shall be enriched to contain 2.0 to 2.5 mg thiamine per pound; 1.2 to 1.5 mg riboflavin per pound; 16.0 to 20.0 mg niacin per pound; and 13.0 to 16.5 mg iron per pound.

Section 1.2 SOY-FORTIFIED BULGUR REQUIREMENTS

- A. The bulgur will be milled from wheat of any of the classes defined in the "Official United States Standards for Grain" except mixtures of wheat of contrasting classes. The wheat shall not contain more than 4.0 percent of damaged kernels. The grain standards are available at:

 http://www.gipsa.usda.gov/GIPSA/webapp?area=home&subject=grpi&topic=sqous.
- B. Wheat shall be tested for vomitoxin in accordance with procedures approved by Federal Grain Inspection Service (FGIS) and any wheat testing higher than 2 p.p.m. shall not be used in production of the commodity. The final product shall not contain more than 1 p.p.m. of vomitoxin.
- C. The ingredients contained in the blended product must be in the following proportions.

Ingredients	Pounds per 2,000 lb Batch
Bulgur, cracked	1,700
Soy grits, defatted (toasted) or expeller	300
Total	2,000

- (1) The soy-fortified bulgur when cooked by mixing one part by volume of the product with two parts by volume water, bringing the mixture to a boil, and boiling gently for 15 minutes, shall be distinctly particulate (individual particles which adhere together to some extent after cooking but will not disintegrate or otherwise lose their identity) but tender and palatable. It must not be ropy or gluey.
- (2) The product shall have a good characteristic taste and odor free from rancid, bitter, musty, sour, and other undesirable or foreign tastes and odors.
- D. The product shall conform to the requirements in the table below.

Chemical And Physical Requirements⁷ Soy-Fortified Bulgur

Soy-Fortified Bulgur				
	Requi	rements		
Item	Minimum	Maximum		
Moisture		11.5%		
Protein (Nx5.7) ⁸	17.3%			
Crude Fat ⁸		2.6%		
Crude Fiber 8		2.6%		
Total Bacteria Count		50,000gm		
Foreign Material: Other grains except soy grits		0.10%		
Materials other than cereal grains or soy grits ⁹		0.10%		
Scorched particles (whole or pieces of kernels)		0.20%		
Ungelantized particles (whole or pieces of kernels)		0.90%		
Whole processed kernels remaining on No. 8 woven-		3.5%		
wire-cloth sieve				
Material that will pass through a U.S. Standard No. 8	81.0%			
woven-wire-cloth sieve				
Material that will pass through a U.S. Standard No.		23.0%		
14 woven-wire-cloth sieve				
Material that will pass through a U.S. Standard No.		1.2%		
30 woven-wire-cloth sieve				

Soy-Fortified Bulgur 10

Calcium	Max. Ash	Calcium	Max. Ash	Calcium	Max. Ash
Mg/lb.	Percent	Mg/lb.	Percent	Mg/lb.	Percent
340-358	2.98	649-666	3.15	957-974	

⁷ All percentages are on the basis of weight.

⁸ These limiting values are on a moisture-free basis.

⁹ Including grain hulls either attached or detached. However, any hulls attached to product should be detached before inclusion in the hull fraction.

¹⁰ Soy-fortified bulgur, prior to calcium enrichment, must not have an ash content exceeding 2.80 percent on a moisture-free basis.

359-376	2.99	667-684	3.16	975-993	3.33
377-394	3.00	685-702	3.17	994-1011	3.34
395-412	3.01	703-720	3.18	1012-1029	3.35
413-430	3.02	721-739	3.19	1030-1047	3.36
431-448	3.03	740-757	3.20	1048-1065	3.37
449-466	3.04	758-775	3.21	1066-1083	3.38
467-485	3.05	776-793	3.22	1084-1101	3.39
486-503	3.06	794-811	3.23	1102-1120	3.40
504-521	3.07	812-829	3.24	1121-1138	3.41
522-539	3.08	830-847	3.25	1139-1156	3.42
540-557	3.09	848-866	3.26	1157-1174	3.43
558-575	3.10	867-884	3.27	1175-1192	3.44
576-593	3.11	885-902	3.28	1193-1210	3.45
594-612	3.12	903-920	3.29	1211-1228	3.46
613-630	3.13	921-938	3.30	1229-1247	3.47
631-648	3.14	939-956	3.31		

E. Soy-fortified bulgur will be enriched in accordance with the requirements defined in Section 1.1.D. (same as regular bulgur)

Section 1.3 SOY-FORTIFIED BULGUR, CRACKED REQUIREMENTS

- A. The bulgur will be milled from wheat of any of the classes defined in the "Official United States Standards for Grain" except mixtures of wheat of contrasting classes. The grain standards are available at:

 http://www.gipsa.usda.gov/GIPSA/webapp?area=home&subject=grpi&topic=sq-ous.
- B. Wheat shall be tested for vomitoxin in accordance with procedures approved by Federal Grain Inspection Service (FGIS) and any wheat testing higher than 2 p.p.m. shall not be used in production of the commodity. The final product shall not contain more than 1 p.p.m. of vomitoxin.
- C. The wheat must not contain more than 4.0 percent damaged kernels.
- D. The product shall conform to the requirements in the table below.

Chemical And Physical Requirements¹¹ Soy-Fortified Bulgur, Cracked

	Requirements	
Item	Minimum	Maximum
Moisture		11.5%
Protein (Nx5.7) ¹²	10.5%	
Crude Fiber		2.0%

¹¹ All percentages are on the basis of weight. All analyses except moisture are expressed on a moisture-free basis.

¹² These limiting values are on a moisture-free basis.

Ash		1.8%
Foreign Material: Total		0.20%
Material: Other than Cereal Grains		0.05%
Material except other grains ¹³		0.10%
Scorched particles (whole and/or pieces of kernels)		0.20%
Ungelantized particles (whole and/or pieces of		1.0%
kernels)		1.0%
Whole processed kernels remaining on No. 8		4.0%
woven-wire-cloth sieve		4.0%
Material that will pass through a U.S. Standard No.	80.0%	
8 woven-wire-cloth sieve		
Material that will pass through a U.S. Standard No.		23.0%
14 woven-wire-cloth sieve		23.0%
Material that will pass through a U.S. Standard No.		0.00/
30 woven-wire-cloth sieve		0.9%

Section 1.4 SOY GRITS, DEFATTED (TOASTED) OR EXPELLER

- A. Soy grits, defatted (toatsted) will be the screened, coarsely ground product obtained from selected soybeans by cleaning, cracking, dehulling, tempering, flaking, defatting with hexane, desolventizing, deodorizing, toasting (full cook with color change to light yellow or golden buff), and cooling.
- B. Soy grits, expeller will be the screened, coarsely, ground product obtained from selected soybeans by cleaning, cracking, dehulling, heating, and expeller change to golden buff or tan, and cooling. The product shall conform to the requirements in the table below.

Chemical and Physical Requirements¹⁴ Soy Grits, Defatted (Toasted) Or Expeller

	Requirements	
Item	Minimum	Maximum
Moisture		12.0%
Protein (Nx6.25)		
Crude Fat, defatted, toasted grits		1.0%
Crude Fat, expeller grits	5.0%	6.5%
Ash		7.0%
Crude Fiber		3.5%
Material that will pass through a U.S. Standard No.	90.0%	
8 woven-wire-cloth sieve		
Material that will pass through a U.S. Standard No.		75.0%
14 woven-wire-cloth sieve		

 $^{^{13}}$ Including grain hulls and whole or pieces of kernels of grain with the hulls attached.

BWSF10 Page 6

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¹⁴ All percentages are on the basis of weight. All analyses except moisture are expressed on a moisture-free basis.

Material that will pass thro		5.0%	
30 woven-wire-cloth sieve			
Nitrogen Solubility Index		10.0%	30.0%
Urease activity increase in	pН	0.05%	
Total bacteria count			50,000gm
Color, defatted, toasted Light yellow to golden			
grits			
Color, expeller grits Golden to tan			
Texture Reasonably uniform gr			
Odor Neutral to nutty			
Taste	Pleasant, neutral to slight	ly nutty	

Section 1.5 **OUALITY ASSURANCE**

- A. The contractor shall perform the product testing and quality analysis to ensure that the product meets the commodity specifications. The results shall be evidenced by a Certificate of Analysis (COA). Copies of the original COA must be submitted as part of the invoice package. The COA shall provide the results of all tests specified. If quality discounts are provided in the contract, and the product to be delivered by the contractor falls within the quality discount table, those factors shall be identified by an asterisk on the copies of the COA.
- B. Contractors shall notify the Government immediately of lots that fail to meet contract requirements.
- C. Unless otherwise specified, test methods for the finished product, and any ingredients therein, shall be those of the AOAC INTERNATIONAL, the American Association of Cereal Chemists (AACC), or the American Oil Chemists' Society (AOCS), as applicable and in effect on the date of issuance of the solicitation, or in accordance with methods that give equivalent results.

Section 1.6 QUALITY DISCOUNTS

If the product to be delivered by the contractor does not meet the quality specifications required herein but falls within the discounts listed, the product may be delivered to the Government, but the purchase price will be reduced in accordance with the following schedule of discounts for each 100 pounds of commodity delivered. A commodity that deviates from the specifications will be rejected.

Bulgur

Deficient Protein		Excess Whole Kernels Remaining on a	
		No. 8 Sieve	
9.2% or 9.1%	\$0.10	4.1% thru 4.4%	\$0.10
9.0% or 8.9%	\$0.20	4.5% thru 4.8%	\$0.20
8.8%	\$0.35	4.9% or 5.0%	\$0.35
Excess Ungelantinized Particles		Excess Material other than Cereal	

		Grains	
1.1% thru 1.4%	\$0.10	0.11% thru 0.20%	\$0.25
1.5% thru 1.8%	\$0.20		
1.9% or 2.0%	\$0.35		
Excess Ash Percentage Points above		Excess Other Grains Except Wheat	
Maximum			
.01% or .02%	\$0.10	0.11% thru 0.20%	\$0.25
.03% or .04%	\$0.20		
.05%	\$0.35		
Excess Moisture		Excess Crude Fiber	
11.6% or 11.7%	\$0.10	2.4% or 2.5%	\$0.10
11.8% or 11.9%	\$0.20	2.6% thru 2.7%	\$0.20
12.0%	\$0.35	2.8%	\$0.35
Excess Granulation Through a No.		Excess Scorched Partic	les
14 Sieve			
19.0% thru 22.0%	\$0.10	0.21% thru 0.30%	\$0.25
23.0% thru 26.0%	\$0.20		
27.0% or 28.0%	\$0.35		
Deficient Granulation Through a No.		Deficient Calcium	
8 Sieve			
79.0% thru 70.0%	\$0.10	499 – 440 mg/lb	\$0.05
		439 – 440 mg/lb	\$0.10
		399 – 340 mg/lb	\$0.20
Deficient Granulation Through a No.		Excess Calcium	
30 Sieve			
1.0% thru 1.5%	\$0.10	750 – 1247 mg/lb	\$0.0
1.6%thru 2.5%	\$0.20		
2.6% thru 3.0%	\$0.35		

Soy-Fortified Bulgur

Deficient Protein		Excess Whole Kernels Remaining on a	
		No. 8 Sieve	
17.2% or 17.1%	\$0.10	3.6% thru 4.0%	\$0.10
17.0% or 16.9%	\$0.20	4.1% thru 4.5%	\$0.20
16.8%	\$0.35	4.6% or 5.0%	\$0.35
Excess Ungelantinized Particles		Excess Material other than Cereal	
_		Grains and Soy Grits	
1.0% or 1.1%	\$0.10	0.11% thru 0.20%	\$0.25
1.2% or 1.3%	\$0.20		
1.4%	\$0.35		
Excess Ash Percentage Points above		Excess Other Grains Except Wheat and	
Maximum		Soy Grits – Percent	
.01% or .02%	\$0.10	0.11 thru 0.20	\$0.25
.03% or .04%	\$0.20		
.05%	\$0.35		
Excess Moisture		Excess Crude Fiber	
11.6% or 11.7%	\$0.10	2.7% or 2.8%	\$0.10
11.8% or 11.9%	\$0.20	2.9% thru 3.0%	\$0.20
12.0%	\$0.35	3.1%	\$0.35

Excess Granulation Through a No. 14		Excess Crude Fat	
Sieve			
24.0% thru 26.0%	\$0.10	2.7% or 2.8%	\$0.10
27.0% thru 29.0%	\$0.20	2.9% or 3.0%	\$0.20
30.0% or 32.0%	\$0.35	3.1%	\$0.35
Deficient Granulation Through a No. 8		Deficient Calcium	
Sieve			
80.0% or 79.0%	\$0.10	499 – 440 mg/lb	\$0.05
78.0% or 77.0%	\$0.20	439 – 440 mg/lb	\$0.10
776.0%	\$0.35		
Deficient Granulation Through a No.		Excess Calcium	
30 Sieve			
1.3% thru 1.8%	\$0.10	750 – 1247 mg/lb	\$0.0
1.9% thru 2.5%	\$0.20	Excess Scorched Particles	
		0.21% thru 0.30%	\$0.25

Part 2 CONTAINER AND PACKAGING REQUIREMENTS

Section 2.1 GENERAL

All woven polypropylene bags shall be purchased from the Government's Total Quality System Audit (TQSA) approved bag supplier, including fabric weavers, converters, and brokers. Approved suppliers are listed on the Internet at: http://www.fsa.usda.gov/Internet/FSA_File/tqsa_approved_suppliers.pdf.

Section 2.2 CONTAINERS AND MATERIALS

A. All containers and packaging materials shall be manufactured and assembled in the United States. The components that make up the fabricating materials of the containers and packaging materials shall be of U.S. origin to the extent that they are commercially available. Questions concerning the availability of a material should be directed to:

USDA/FSA/DACO Room 5755 - South Building, Stop 0551 1400 Independence Avenue, SW Washington, D.C. 20250-0551 ATTN: Packaging

- B. All containers and packaging materials shall be constructed to meet the requirements of the FDA for safe contact with the packaged product.
- C. 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.

D. 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 requirements.

Section 2.3 50-KILOGRAM WOVEN POLYPROPYLENE BAGS

Woven polypropylene fabric and circular-woven style bags

- A. The manufacturer and fabric construction shall be authorized for use, in writing, by the Government.
- B. The color of the fabric shall be white, unless otherwise specified. Colored identifying marker yarn(s) shall be woven into the fabric by the manufacturer. The color(s) of the marker yarn(s) shall be approved, in writing, by the Government. Information on approval of manufacturer and associated marker yarn will be posted on the USDA, FSA, DACO Internet page at: http://www.fsa.usda.gov/Internet/FSA_File/tqsa_approved_suppliers.pdf.
- C. The polymer in the fabric shall be 100 percent virgin polypropylene with no recycled material. Rework product will be limited to excess material produced during the initial extrusion process and will be limited to the amount produced during normal continuous operation. A system to identify and document this process must be in place for review by the Government's audit personnel.
- D. The fabric in an unstressed state shall permit a minimum air flow of 3 cubic feet per minute per square foot and a maximum of 30 cubic feet per minute per square foot, when tested in accordance with ASTM Test Method D737, as amended.
- E. The fabric shall be finished by coating or other suitable method to prevent slippage. Individual test results shall be 28 degrees or greater, when tested in accordance with TAPPI Test Method T-503-OM-84. The fabric shall accept and retain printing ink that will not rub or flake off to a degree where legibility is impaired.
- F. The fabric shall be capable of resisting ultraviolet deterioration for a minimum of 200 hours of exposure in a weatherometer, when tested in accordance with Test Method 5804-Federal Standard 191, as amended. The fabric shall retain 70 percent of its original minimum tensile strength in each direction, after 200 hours exposure, when tested in accordance with Test Method ASTM D 5034 (Grab Test), as amended.
- G. Bags may be flat tube or gusseted.
- H. Bags may be extrusion coated. Extrusion coated bags shall have the proper number, size and location of micro perforations to achieve the air permeability

rate required for product stability and fumigation, as well as filling efficiency.

Section 2.4 SEWING OF BAG SEAMS

- A. All bag seams shall be sewn in a manner which prevents the product from leaking through the seams during handling, storage, and distribution.
- B. The color of the sewing thread shall be natural or white. The tensile strength of the sewn seams shall not be less than the tensile strength of the fabric in the body of the bag.
- C. The top and bottom of the bag shall be heat cut or otherwise finished to prevent fraying or unraveling of the fabric during distribution. The bottom seam shall be constructed in accordance with Federal Standard 751a, SSn-1 Single Turnover, as amended. A minimum of 4 stitches per inch is required.

Section 2.5 PERFORMANCE TEST PROCEDURES

- A. All bags shall be capable of withstanding the following performance test for impact resistance.
 - (1) Ten filled and sealed bags shall each survive a single drop test on the butt and side on a shock machine that produces for each test a velocity change of 195 inches per second using a shock duration of .002 seconds without loss of product.
 - (2) Testing shall be conducted under standard temperature (73.4 ° F plus or minus 1.8 ° F) and relative humidity (50% plus or minus 2%) conditions.
 - (3) Filled bags shall be placed in the conditioned atmosphere for sufficient time before the tests are conducted for the bag materials to come to equilibrium.
 - (4) Bags submitted under this performance specification shall conform to all other applicable material, construction, and performance specifications.

B. Test Laboratories

Independent or private laboratories known to be capable of conducting the performance test for impact resistance described in Section 2.5 are as follows:

Michigan State University **Lansmont Corporation** School of Packaging 1287 Reamwood East Lansing, MI 48824-1223 Sunnyvale, CA 94089 (517) 355-9580 (408) 734-9724 http://packaging.msu.edu/ Lansmont Corporation 6539 Westland Way, Suite 24 Lansing, MI 48917 (888) 526-7666 www.lansmont.com **Rutgers University** Ten-E Packaging Services, Inc. 1666 County Road 74 Packaging Science and Engineering Dept. Newport, MN 55055 P.O. Box 909 (651) 459-0671 Piscataway, NJ 08854 www.ten-e.com (201) 932-3679

Section 2.6 TEST FREQUENCY

- A. All testing specified shall be performed and documented to qualify a fabric/bag construction for approval by the Government and in accordance with the frequencies outlined below. The fabric construction and test results shall be submitted to the Government for review. All approvals will be confirmed in writing.
- B. The air permeability and ultraviolet resistance tests shall, as a minimum, be performed annually and when a change in the formulation/design of the fabric is being made.
- C. The performance test for impact resistance shall be performed when a change in the formulation/design of the fabric is being made.
- D. The slide angle test shall, as a minimum, be performed in-house for every 10,000 lineal meters of fabric production. Testing performed in-house is not required to be performed under the specified temperature and humidity requirements. In addition, the slide angle test shall, as a minimum, be performed annually by an outside testing facility and when a change in the formulation/design of the fabric is being made. This testing shall be performed in accordance with all contract requirements, including the specified temperature and humidity.
- E. The Government will periodically require bag fabric suppliers to submit Declaration Sheets which describe the construction, origin, and test results of

- approved fabric/bags. Declaration sheets shall also be submitted when a change in the formulation/design of the fabric is being made.
- F. All supporting test and quality control documentation shall be retained and made available for review by the Government for a minimum of three years after final payment under the contract.
- G. The Government will periodically obtain samples of bags produced under contract and submit the samples for testing to verify that the bags were produced in accordance with the contract requirements. The Government will be responsible for the cost of testing bags determined to be constructed in compliance. Suppliers will be responsible for the cost of testing bags determined not to be in compliance and in-plant audits by the Government to determine if corrective actions have been taken.

Part 3 MARKING REQUIREMENTS

Section 3.1 MARKINGS

- A. The bag shall be marked in the color specified in the markings exhibits. Any markings not shown on the exhibits shall be printed in blue. When printed on the bag, the colors blue and red shall match the Pantone Matching System (PMS) chart numbers 280 and 200, respectively, to the extent practicable.
- B. All dimensions are approximate. Unless otherwise specified, all characters shall be in normal block print.
- C. The US Flag shall be 7 inches high and 12 3/4 inches in total width on the front and back of the applicable bag, see exhibits.
- D. The letters USA shall be Univers black (75) oblique, or Helvetica extra bold with 70% scaling and -70 tracking or equivalent to match the style as shown in the exhibits. The letters USA shall be 6 1/2 inches high and 12 1/2 inches in total width. The three stripes adjacent USA shall be 1 1/4 inches high and printed as close to the edges of the bag as possible, not to exceed 1 1/2 inches from any edge.
- E. The USAID vertical identity, including the logo, brandname, and tagline, shall be printed in the same style as shown in the markings exhibits, sized approximately 7 1/2 inches high and 9 3/8 inches in total width. The USAID logo shall be 4 1/4 inches in diameter. The USAID brandname shall be 2 inches in height. The tagline "FROM THE AMERICAN PEOPLE" shall be 1/2 inch in height. The USAID vertical identity is available to download at http://www.usaid.gov/branding/downloadsweb.html.
- F. The USDA logo shall be 5 1/2 inches high and 7 3/4 inches in total width, see exhibits.

- G. The commodity name shall be 1 1/2 inch print. Immediately below the commodity name on the front and back panels insert additional commodity description in 5/8 inch print, if applicable. See Exhibit A for appropriate commodity name/additional commodity description that shall be printed on each bag.
- H. The net weight, contract number and the statement "NOT TO BE SOLD OR EXCHANGED" shall be 3/4 inch print. The bag dimensions and Standard Marking Requirement (SMR) or Language Marking Requirement (LMR) number shall be 1/2 inch print. The contract number, net weight, and SMR and LMR number shall be at the bottom of the bag, centered. See exhibits.
- I. The symbol indicating "USE NO HOOKS" shall be 2 3/4 inches in height. See exhibits.
- J. The letters or symbols used in the language markings for LMR-1, LMR-3, LMR-4, LMR-5, LMR-7, and LMR-8 should be sized approximately 1 5/8 inches, see exhibits. The language marking for LMR-2 and LMR-6 should be sized to fit as shown in the exhibits.
- K. Lot numbers, production codes or any other means of identification required to meet traceability requirements shall be as small as possible, yet legible.

Section 3.2 MARKING DESCRIPTIONS

The Government shall furnish required markings within two business days after the date of the contract. The procurement of containers should be deferred for at least two business days after the date of the contract.

The following standard marking requirements may be requested under the contract:

Standard Marking Requirement #1 (SMR-1)

USAID – **Distribution**

Front: US Flag, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USAID logo, contract number, net weight, dimensions, "SMR-1," and use no hooks symbol. See exhibit SMR-1, front.

Back: Identical to front See exhibit SMR-1, back.

Standard Marking Requirement #2 (SMR-2)

FAS - Distribution

Front: USA with stripes, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USDA logo, contract number, net weight, dimensions, "SMR-2", and use no hooks symbol. See exhibit SMR-2, front.

Back: Identical. See exhibit SMR-2, back.

Standard Marking Requirement #3 (SMR-3)

USAID – Monetization

Front: US Flag, the commodity name, USAID logo, contract number, net weight, dimensions, "SMR-3," and use no hooks symbol. See exhibit SMR-3, front.

Back: Identical to front. See exhibit SMR-3, back.

Standard Marking Requirement #4 (SMR-4)

FAS or USAID - Monetization

Front: USA with stripes, the commodity name, contract number, net weight, dimensions, "SMR-4," and use no hooks symbol. See exhibit SMR-4, front.

Back: Identical. See exhibit SMR-4, back.

Language Marking Requirement #1 (LMR-1)

USAID - Distribution for North Korea

Front: US Flag, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USAID logo, contract number, net weight, dimensions, and "LMR-1" and use no hooks symbol. See exhibit LMR-1, front.

Back: US Flag, the commodity name, North Korean language panel, and "LMR-1" only. See exhibit LMR-1, back.

Language Marking Requirement #2 (LMR-2)

USAID - Distribution for Afghanistan, with Pashtu and Dari

Front: US Flag, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USAID logo, contract number, net weight, dimensions, and "LMR-2" and use no hooks symbol. See exhibit LMR-2, front.

Back: US Flag, the commodity name, Pashtu and Dari language panel, and "LMR-2" only. See exhibit LMR-2, back.

Language Marking Requirement #3 (LMR-3)

USAID – Distribution for South Africa Region

Front: US Flag, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USAID logo, contract number, net weight, dimensions, and "LMR-3" and use no hooks symbol. See exhibit LMR-3, front.

Back: US Flag, the commodity name, English language panel, and "LMR-3" only. See exhibit LMR-3, back.

Language Marking Requirement #4 (LMR-4)

USAID – Distribution for Iraq with Arabic

Front: US Flag, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USAID logo, contract number, net weight, dimensions, and "LMR-4" and use no hooks symbol. See exhibit LMR-4, front.

Back: US Flag, the commodity name, Arabic language panel, and "LMR-4" only. See exhibit LMR-4, back.

Language Marking Requirement #5 (LMR-5)

FAS – Distribution for North Korea

Front: USA with stripes, the commodity name, the words "NOT TO BE SOLD

OR EXCHANGED," USDA logo, contract number, net weight, dimensions, and "LMR-5" and use no hooks symbol. See exhibit LMR-5, front.

Back: USA with stripes, the commodity name, North Korean language panel, and "LMR-5" only. See exhibit LMR-5, back.

Language Marking Requirement #6 (LMR-6)

FAS - Distribution for Afghanistan, with Pashtu and Dari

Front: USA with stripes, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USDA logo, contract number, net weight, dimensions, and "LMR-6" and use no hooks symbol. See exhibit LMR-6, front.

Back: USA with stripes, the commodity name, Pashtu and Dari language panel, and "LMR-6" only. See exhibit LMR-6, back.

Language Marking Requirement #7 (LMR-7)

FAS - Distribution for South Africa Region

Front: USA with stripes, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USDA logo, contract number, net weight, dimensions, and "LMR-7" and use no hooks symbol. See exhibit LMR-7, front.

Back: USA with stripes, the commodity name, English language panel, and "LMR-7" only. See exhibit LMR-7, back.

Language Marking Requirement #8 (LMR-8)

FAS – Distribution for Iraq with Arabic

Front: USA with stripes, the commodity name, the words "NOT TO BE SOLD OR EXCHANGED," USDA logo, contract number, net weight, dimensions, and "LMR-8" and use no hooks symbol. See exhibit LMR-8, front

Back: USA with stripes, the commodity name, Arabic language panel, and "LMR-8" only. See exhibit LMR-8, back.

Section 3.3 EMPTY BAG DIMENSIONS

A. All bags shall be marked with the empty dimensions as follows:

Gusseted Bags	Face Width X Gusseted Width X Finished Length
Flat Tube Bags	Face Width X Finished Length

- B. The dimensions shall be printed at the bottom of the bag, centered, see exhibits.
- C. The finished size of the circular woven polypropylene bags will be determined by the contractor, unless otherwise specified by the contracting officer.

Section 3.4 CONTAINERS WITH INCORRECT MARKINGS

A. Any labels, bags, cans, can lids, cases, or any other type of packaging (hereinafter referred to as "containers") displaying incorrect markings may be used under a Government contract provided that the incorrect markings are obliterated and correct markings are applied in a permanent manner with approval of the

contracting officer.

B. The appearance of containers in commercial or other channels either filled or unfilled bearing markings identifying the containers as part of a Government contract may cause the Government expense in determining whether commodities have been diverted from authorized use and in answering inquiries. The contractor shall take all necessary action to prevent the appearance in commercial or other channels of containers and container materials bearing any markings required under a Government contract, including those held by the contractor or others; e.g., overruns, misprints, etc. The contractor shall ensure that any container from a Government contract that appears in commercial or other channels shall have all markings required under this contract permanently obliterated.

List of Commodity Names Printed on 50 Kilogram Woven Polypropylene Bags

Commodity	Commodity Name	Commodity	Commodity Name
Requirements	57.12 GYV5	Requirements	DY 1 GYY DE 1379
Bulgur / Soy-	BULGUR	Dry Edible	BLACK BEANS
Fortified Bulgur	SOY-FORTIIFIED BULGUR	Beans (DEB)	BLACKEYE BEANS
(BWSF)		_	
Buckwheat	BUCKWHEAT GROATS		DARK RED KIDNEY BEANS
(BWP)	BUCKWHEAT GRITS	_	LIGHT RED KIDNEY BEANS
	BUCKWHEAT FLOUR		GARBANZO BEANS
Bagged Grain	WHEAT		GREAT NORTHERN BEANS
(KCBG)	HARD RED WINTER		
	WHEAT		PEA BEANS
	SOFT WHITE		DINIZ DE ANG
	WHEAT HARD RED SPRING		PINK BEANS
	WHEAT		PINTO BEANS
	NORTHERN SPRING		THAT O BEATAG
	SORGHUM		SMALL RED BEANS
	YELLOW CORN		SMALL WHITE BEANS
	YELLOW CORN		
	YELLOW SOYBEANS		
Milled Rice (MR)	MILLED RICE	Peas and	LENTILS
	LONG GRAIN	Lentils (PL)	
	MILLED RICE		SPLIT GREEN PEAS
	MEDIUM GRAIN		CDL IT VELLOW DE AC
	MILLED RICE SHORT GRAIN		SPLIT YELLOW PEAS
	MILLED RICE		SMOOTH GREEN DRY PEAS
	PARBOILED		
Wheat Flour/	FLOUR		SMOOTH YELLOW DRY PEAS
Bread Flour	ALL PURPOSE BREAD FLOUR	-	
(WFBF)	BILAD FLOOR		
50 KG	WHEAT		
Polypropylene	CORN		
Bags	SORGHUM		
(KCPBAGS)	SOYBEANS		
	SOYBEAN MEAL		

SMR-1 FRONT SMR-1 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED



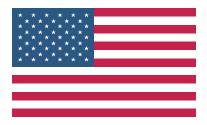


CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

SMR-1



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

SMR-1

SMR-2 FRONT SMR-2 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 SMR-2



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED

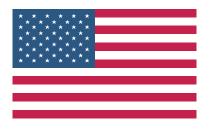




CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 SMR-2

SMR-3 FRONT SMR-3 BACK



COMMODITY NAME





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 SMR-3



COMMODITY NAME





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 SMR-3

BWSF10

Page 21

SMR-4 FRONT SMR-4



COMMODITY NAME



CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39

23 x 39

SMR-4



BACK

COMMODITY NAME



CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

SMR-4

LMR-1

BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





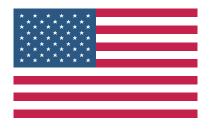
CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39



LMR-2 FRONT LMR-2 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED







NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 LMR-2

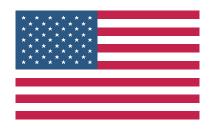


COMMODITY NAME

د امریکا د متحده ایالاتو د خلکو سوغات

تحفه، مردم ایالات متحده امریکا

LMR-3 FRONT LMR-3 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED

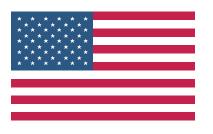




CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39

LMR-3



COMMODITY NAME

Gift of the People of the United States of America

LMR-3

LMR-4 FRONT LMR-4 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED







NET WEIGHT: 50 kg, 110.23 lb.

23 x 39



LMR-5 FRONT LMR-5



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED



CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

LMR-5



BACK

COMMODITY NAME

미국에서

보내온 선물

LMR-6 FRONT LMR-6



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

LMR-6



BACK

COMMODITY NAME

د امریکا د متحده ایالاتو د خلکو سوغات

تحفه، مردم ایالات متحده امریکا

LMR-7 FRONT LMR-7 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb. 23 x 39 LMR-7



COMMODITY NAME

Gift of the People of the United States of America

LMR-7

LMR-8 FRONT LMR-8 BACK



COMMODITY NAME

NOT TO BE SOLD OR EXCHANGED





CONTRACT ABCD01234

NET WEIGHT: 50 kg, 110.23 lb.

23 x 39

LMR-8



COMMODITY NAME

