CODEX STAN 155 Page 1 of 4

DEGERMED MAIZE (CORN) MEAL AND MAIZE (CORN) GRITS

CODEX STAN 155-1985 (Rev. 1 - 1995)

The Annex to this standard contains provisions which are not intended to be applied within the meaning of the acceptance provisions of Section 4.A (I)(b) of the General Principles of the Codex Alimentarius.

1. SCOPE

- 1.1 This standard applies to degermed maize (corn) meal and to degermed maize (corn) grits for direct human consumption milled from kernels of common maize, *Zea mays* L.
- 1.2 This standard does not apply to whole maize (corn) meal, maize (corn) flours, quick grits, hominy grits, self-rising maize (corn) meals, enriched maize (corn) meals, enriched maize (corn) grits, bolted maize (corn) meals, maize (corn) flakes, and alkaline treated maize (corn) products.
- 1.3 This standard does not apply to maize (corn) meals for use as a brewing adjunct, to maize (corn) meals used for manufacturing of starch and any industrial use, nor to maize (corn) meal for use as an animal feed.

2. **DESCRIPTION**

- 2.1 **Degermed maize (corn) meal** is the food prepared from fully mature, sound, degermed kernels of maize (corn), *Zea mays* L., cleaned from impurities, mold, seeds of weeds and other cereals by a grinding process in which the grain is comminuted to a suitable degree of fineness and from which bran and germ are removed. In its preparation, coarse particles of the ground maize kernel may be separated, reground and recombined with all of the material from which they were separated.
- 2.2 Degermed maize (corn) grits is the food prepared from fully mature, sound, degermed, kernels of maize (corn), *Zea mays* L., cleaned from impurities, mold, seeds of weeds and other cereals, by a grinding process in which the grain is comminuted to a suitable degree of fineness and from which bran and germ are almost completely removed.

3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

3.1 **Quality Factors - General**

- 3.1.1 Degermed maize meal and degermed maize grits shall be safe and suitable for human consumption.
- 3.1.2 Degermed maize meal and degermed maize grits shall be free from abnormal flavours, odours, and living insects.

CODEX STAN 155 Page 2 of 4

3.1.3 Degermed maize meal and degermed maize grits shall be free from filth (impurities of animal origin, including dead insects) in amounts which may represent a hazard to human health.

3.2 Quality Factors - Specific

3.2.1 **Moisture Content**

15.0% m/m max

Lower moisture limits should be required for certain destinations in relation to the climate, duration of transport and storage. Governments accepting the Standard are requested to indicate and justify the requirements in force in their country.

4. **CONTAMINANTS**

4.1 **Heavy Metals**

Degermed maize (corn) meal and maize (corn) grits shall be free from heavy metals in amounts which may represent a hazard to human health.

4.2 **Pesticide Residues**

Degermed maize (corn) meal and maize (corn) grits shall comply with those maximum residue limits established by the Codex Alimentarius Commission for this commodity.

4.3 **Mycotoxins**

Degermed maize (corn) meal and maize (corn) grits shall comply with those maximum mycotoxin limits established by the Codex Alimentarius Commission for this commodity.

5. **HYGIENE**

- 5.1 It is recommended that the product covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the Recommended International Code of Practice General Principles of Food Hygiene (CAC/RCP 1-1969, Rev. 2-1985, Codex Alimentarius Volume 1B) and other Codes of Practice recommended by the Codex Alimentarius Commission which are relevant to this product.
- 5.2 To the extent possible in good manufacturing practice, the product shall be free from objectionable mater.
- 5.3 When tested by appropriate methods of sampling and examination, the product:

CODEX STAN 155 Page 3 of 4

- shall be free from microorganisms in amounts which may represent a hazard to health;
- shall be free from parasites which may represent a hazard to health; and

- shall not contain any substance originating from microorganisms in amounts which may represent a hazard to health.

6. **PACKAGING**

- 6.1 Degermed maize (corn) meal and maize (corn) grits shall be packaged in containers which will safeguard the hygienic, nutritional, technological, and organoleptic qualities of the product.
- 6.2 The containers, including packaging material, shall be made of substances which are safe and suitable for their intended use. They should not impart any toxic substance or undesirable odour or flavour to the product.
- 6.3 When the product is packaged in sacks, these must be clean, sturdy and strongly sewn or sealed.

7. **LABELLING**

In addition to the requirements of the Codex General Standard for the Labelling of Prepackaged Foods (CODEX STAN 1-1985, Rev. 1-1991, Codex Alimentarius Volume 1A), the following specific provisions apply:

7.1 Name of the Product

The name of the product to be shown on the label shall be "degermed maize (corn) meal," or "maize (corn) grits."

7.2 Labelling of Non-Retail Containers

Information for non-retail containers shall either be given on the container or in accompanying documents, except that the name of the product, lot identification and the name and address of the manufacturer or packer shall appear on the container. However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such a mark is clearly identifiable with the accompanying documents.

8. METHODS OF ANALYSIS AND SAMPLING

See Codex Alimentarius Volume 13.

CODEX STAN 155 Page 4 of 4

ANNEX

In those instances where more than one factor limit and/or method of analysis is given we strongly recommend that users specify the appropriate limit and method of analysis.

FACTOR/DESCRIPTION	LIMIT	METHOD OF ANALYSIS
ASH	MAX: 1.0% on a dry weight	AOAC 923.03
	basis	ISO 2171:1980
		ICC Method No. 104/1 (1990)
PROTEIN (N x 6.25)	MIN: 7.0% on a dry weight basis	ICC 105/l Method for the Determination of Crude Protein in Cereals and Cereal Products for Food and for Feed (Type I) Selenium/Copper catalyst
		- or -
		ISO 1871:1975
CRUDE FAT	MAX: 2.25% on a dry weight basis	AOAC 945.38F; 920.39C
		ISO 5986:1983
GRANULARITY		
· degermed maize meal	95% or more shall shall through a 0.85 sieve;	AOAC 965.22
	- and -	(Type I method with sieve specifications as in ISO 3310/l-1982 test sieves)
	45% or more shall pass through a 0.71 mm Sieve;	
	- and -	
	25% or less shall pass through a 0.210 sieve	
· degermed maize grits	95% or more through a 2.00 mm sieve;	AOAC 965.22
	- and - 20% or less through a 0.71 mm sieve	(Type I method with sieve specifications as in ISO 3310/l-1982 test sieves)