

## EmCap 12635 NGM

### DESCRIPTION

Spray-dried waxy maize starch ester. Derived from non-GM (NGM) waxy maize.

### RAW MATERIAL

Waxy corn (maize)

### PRODUCT LABEL

Package labeling US Food starch modified  
 Ingredients US [Listed in Descending Order] 100% (ds) Modified food starch

### FOR USE IN FOOD, NOT FOR RETAIL SALE

### PRODUCT CLASSIFICATION

INS 1450

### Country of Origin

USA

### SPECIFICATIONS

#### Chemical/physical specifications

Parameter		Unit	Min	Typical	Max	Text
Moisture	-	%			10	
pH slurry	25%		3.5		5.5	
Sulphur dioxide	-	mg/kg			9.9	
Visc:RVA	30%ds,4min,25°C	mPa.s			155	

#### Microbiological specifications

Parameter		Unit	Min	Typical	Max	Text
Total plate count	/g				2000	
Yeasts	/g				100	
Moulds	/g				100	
Salmonella	/25g					absent

## Allergens (Legal directives)

### Allergen information

	Presence	Comment
Wheat and products thereof	No	
Cereals containing gluten and products thereof	No	
Crustaceans and products thereof	No	
Eggs and products thereof	No	
Fish and products thereof	No	
Peanuts and products thereof	No	
Soybeans and products thereof	No	
Milk and products thereof (including lactose)	No	
Nuts and products thereof	No	
Celery and products thereof	No	
Mustard and products thereof	No	
Sesame seeds and products thereof	No	
Sulphur dioxide and sulphites	No	** SO <sub>2</sub> <10 mg/kg
Lupins and products thereof	No	
Molluscs and products thereof	No	

\*\* Sulfur dioxide <10ppm allergen labelling not required according to 21 CFR section 101.100 of the US FDA

The above list of allergens is in accordance with Annex II of Regulation (EU) n° 1169/2011 on food information to consumers

The above list of allergens is in accordance with Food Allergen Labeling and Consumer Protection Act (FALCPA)

The above list of allergens is in accordance with Health Canada, the Canadian Food Inspection Agency (CFIA)

## Dietary information

Suitable for	Certified		Comment
Halal	Yes	Yes	
Kosher	Yes	Yes	
Lacto-vegetarian	Yes	No	
Ovo-vegan	Yes	No	
Vegan	Yes	No	
Vegetarian	Yes	No	

### GMO statement

This Cargill ingredient complies with the EU GMO requirements as principally laid down under EC Regulation No 1829/2003 on 'genetically modified food and feed' and EC Regulation 1830/2003 on 'the traceability and labelling of food and feed products produced from GMO's. Therefore, there is no need to label this product under either 1829/2003 or 1830/2003.

### Legal requirements

This product is in compliance with:

FDA 21 CFR § 172.892, Food starch-modified

Current Food Chemical Codex

Status pursuant to USDA 7 CFR Part 66 National Bioengineered Food Disclosure Standard ("BE" status):

The product has been sourced from a non-bioengineered source and the inadvertent presence of BE is less than 0.9%.

### STANDARD PACKAGING

20 kg/44 lb. multi-ply paper bags

50 lb. Multi-ply, PE Lined Paper Bags

## RECOMMENDED STORAGE CONDITIONS

Store inside, under dry conditions

## SHELF LIFE FOR PACKED PRODUCT

Shelf life after production date (months):

24

## COMMENTS TO SHELF LIFE

The specified shelf life can only be guaranteed for this product if the above mentioned recommended storage conditions are respected. For products delivered in bulk, there should be a clean storage (and circulation) system, protected from any potential contamination.

## FUNCTIONALITY

- cold water dispersibility
- emulsion stabiliser
- low viscosity
- bland flavour

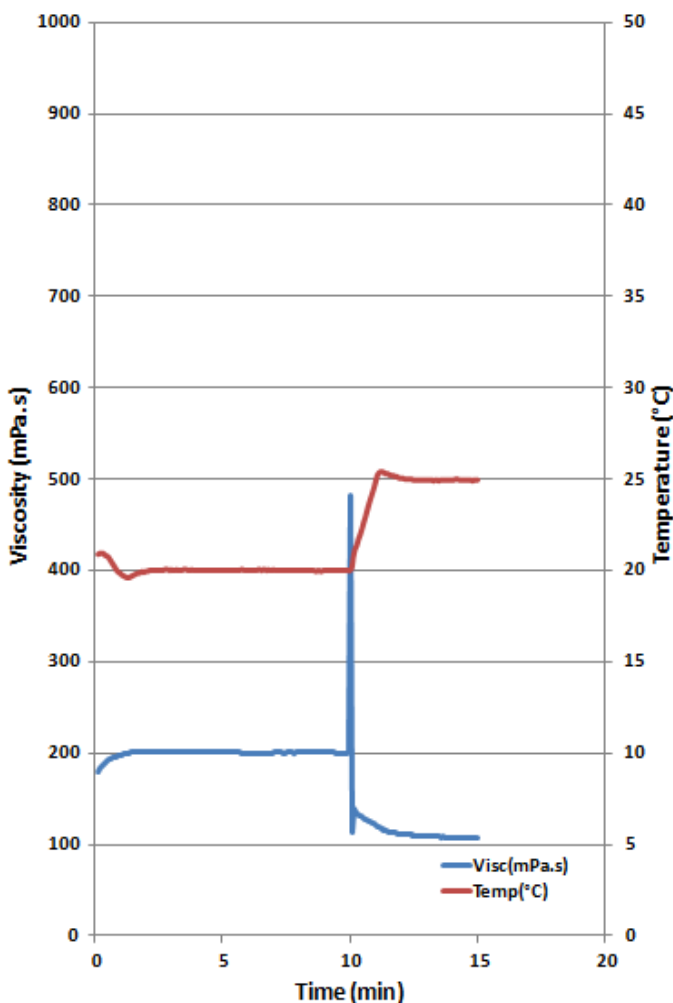
## APPLICATION

Naturally occurring gums such as gum arabic are widely used in the food industry to provide emulsifying, stabilising and encapsulating properties. Cargill has developed starch based alternatives to overcome supply and quality problems related to climatic and political conditions. This product is a cold-water dispersible, emulsifying starch recommended for the encapsulation of delicate ingredients such as flavours, colours and vitamins. The low viscosity permits spray-drying at high dry solids.

Typical applications include:

- spray-dried citrus oils and essences
- spray-dried and liquid clouds
- spray-dried cheese and dairy flavours
- spray-dried coffee-whiteners and soup creamers

Modified starches are more economical to use because they require generally lower usage levels without compromising performance, efficiency and throughput.



Country of origin definition:

Country of Origin or product origin is defined as the country where the material was manufactured/produced/cultivated.

When the material undergoes substantial transformation in a second country, the country in which the transformation is performed shall be considered the country of origin.

Disclaimer:

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## EmCap 12635 NGM

Nutritional Information					
Average values per 100g	Unit	EU	US	Japan	Comment
Energy (kcal)	kcal	373	373	373	
Energy (kJ)	kJ	1561	1561	1561	
Protein	g	0.1	0.1	0.1	
Carbohydrates	g	93	93	93	
of which sugars	g	0	0	0	
Added sugars	g	0	0	0	
of which starch	g				
Dietary Fiber	g	0	0	0	
Fat	g	0.05	0.05	0.05	
of which saturated	g	0.03	0.03	0.03	
of which Trans Fat	g	0	0	0	
Cholesterol	mg	0	0	0	
Sodium	mg	230	230	230	
Calcium	mg	5	5	5	
Potassium	mg	7	7	7	
Iron	mg	0.1	0.1	0.1	
Vitamin C	mg	0	0	0	
Vitamin D	mcg	0	0	0	
Water	g	6.1	6.1	6.1	
Ash	g	0.7	0.7	0.7	

The list comprises relevant nutritional components only.

Values are calculated based on the average of product specifications. In those cases where only a minimum or a maximum value is specified, these values were taken respectively.

The EU column lists the nutritional values in accordance with Regulation (EU) n° 1169/2011 on food information to consumers.

The US column lists the nutritional values in accordance with Code of Federal Regulations (CFR 21).

The Japan column lists the nutritional values in accordance with the Japanese Legislation.

The energy values may differ per region because of different calculations.