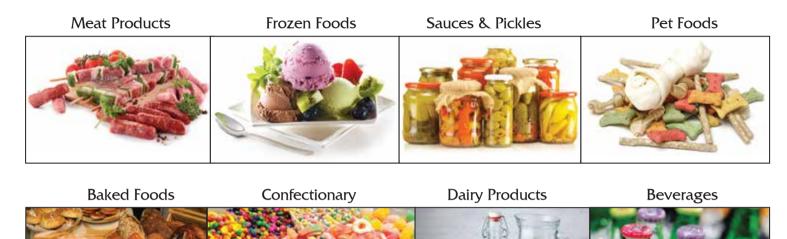


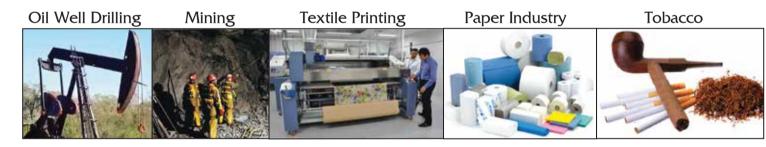
# **APPLICATIONS**

United Gums Industries (Pvt.) Ltd.

## **Food Applications**



## **Industrial Applications**



### Cosmetics



## Tooth Paste & **Shaving Cream**



Pharmaceuticals



















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United Gums Industries (Pvt.) Ltd.

#### INTRODUCTION

The highly purified Guar Gum is obtained from the ground endosperm of Cyamopsis tetragonolobus (leguminosae). It consists mainly of high molecular weight hydro colloidal polysaccharide composed of galactose and mannose units combined through glycoside linkages. Which may be described as galactomannan. It is white to yellowish white, nearly odorless powder dispersed in both hot and cold water forming a solution. Having a pH between 5.5-7.5 Guar Gum has ability to rapidly hydrate in water to produce highly viscous solution.

Product Standards according to Codex Alimentarius for Guar Gum (INS# 412 E)







# Introducing Organic Certified Products

ORGANIC CERTIFICATION OBTAINED FROM CONTROL UNION CERTIFICATIONS B. V. IN ORGANIC EU, USDA-NOP & US-CANADA



#### PRODUCT TYPES

We produce and Export the following three core products.

1. Organic / Conventional Guar Gum Powder



2. Organic / Conventional Guar Dehusked Splits



3. Organic / Conventional Guar Meal Semi-Roasted



### **QUALITY CONTROL**

Well qualified & trained staff with latest laboratory equipment are used to test and monitor the production process 24 hours from the quality of seeds to the end of products i.e. Moisture, Dehusking rate, protein, A.I.R., Fiber, Mesh (ASTM), Viscosity cps (Brookfield), sand/Silica etc.

#### SPECIFICATIONS According to codex Alimentarius

Organic Guar Gum Powder

5	ORGANIC GUAR GUM FOOD GRADE	UG 35-45	UG 50-55	UG 60	UG 60-65	Codex Alimentarius
- ر	According to INS# 412 E					Net Requirement
5	Viscosity 1% Cold water @ 25 °C. Brookfield Viscometer RVT Spindle No. 4. RPM 20 (2hours) CPS	3500-4500	5000-5500	6000	6000-6500	
	Moisture %	11.5 Max	11.0 Max	10.0 Max	8.00 Max	15.0 Max
7	Ash %	1.00 Max	1.00 Max	1.00 Max	1.00 Max	1.5 Max
)	Protein %	5.50 Max	5.0 Max	4.50 Max	4.5 Max	10 Max
	Acid Insoluble Residue %	4.00 Max	3.00 Max	2.50 Max	2.50 Max	7.0 Max
7	Gum Content %	78.0 Min	80.0 Min	82.0 Min	84.0 Min	65.0 Min
	pH	5.5 - 7.0	6.0 – 7.5	6.5 – 7.5	6.5 – 7.5	6.0 – 8.0
	Mesh % Through 200	95 Min				
	Total Plate Count (cfu/gm)	5000 Max				
	Yeast (cfu/gm)	100 Max	100 Max	100 Max	100 Max	500 Max
	Mould (cfu/gm)	200 Max	200 Max	200 Max	200 Max	500 Max
	E.Coli / gm	Negative	Negative	Negative	Negative	Negative
	Salmonella /25 gm	Negative	Negative	Negative	Negative	Negative
	Arsenic (ppm)	1.0 Max				
	Lead (ppm)	2.0 Max				
	Heavy Metals (ppm)	5.0 Max				

#### SPECIFICATIONS According to codex Alimentarius

#### Conventional Guar Gum Powder

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GUAR GUM FOOD GRADE	UG 35-45	UG 50-55	UG 60	UG 60-65	Codex Alimentarius
According to INS# 412 E					Net Requirement
Viscosity 1% Cold water @ 25 °C. Brookfield Viscometer RVT Spindle No. 4. RPM 20 (2hours) CPS	3500-4500	5000-5500	6000	6000-6500	
Maishaus 0/	11.5.14	11.0 M	10.0 М	0.00.14	15.0 Man
Moisture %	11.5 Max	11.0 Max	10.0 Max	8.00 Max	15.0 Max
Ash %	1.00 Max	1.00 Max	1.00 Max	1.00 Max	1.5 Max
Protein %	5.50 Max	5.0 Max	4.50 Max	4.5 Max	10 Max
Acid Insoluble Residue %	4.00 Max	3.00 Max	2.50 Max	2.50 Max	7.0 Max
Gum Content %	78.0 Min	80.0 Min	82.0 Min	84.0 Min	65.0 Min
рН	5.5 – 7.0	6.0 – 7.5	6.5 – 7.5	6.5 – 7.5	6.0 – 8.0
Mesh % Through 200	95 Min				
Total Plate Count (cfu/gm)	5000 Max				
Yeast (cfu/gm)	100 Max	100 Max	100 Max	100 Max	500 Max
Mould (cfu/gm)	200 Max	200 Max	200 Max	200 Max	500 Max
E.Coli / gm	Negative	Negative	Negative	Negative	Negative
Salmonella /25 gm	Negative	Negative	Negative	Negative	Negative
Arsenic (ppm)	1.0 Max				
Lead (ppm)	2.0 Max				
Heavy Metals (ppm)	5.0 Max				

## Organic / Conventional Guar Dehusked Splits

S.NO.	SPECIFICATIONS	PERCENTAGE	
1	Dehusking Rate	93.00% Min	
2	Odor	Odorless	
3	Moisture	10.00% Max	
4	Black Splits	0.5% Max	
5	Red Splits	0.5% Max	
6	Broken Splits	1.00% Max	
7	Protein	4.00% Max	
8	Acid Insoluble Residue (A.I.R.)	2.0% Max	
9	Fiber	0.5% Max	
10	Acid Insoluble Ash	0.3% Max	
11	Gum by Difference	84% (By Difference)	
12	Ultimate Viscocity	6600-7000 CPS	

## Organic / Conventional Guar Meal Semi-Roasted

S.NO.	SPECIFICATIONS	PERCENTAGE
1	Moisture	3-5%
2	Crude Protein	39.42%
3	Oil	4-6%
4	Fiber	11-14%
5	Ash	4-5%
6	Oil+Albuminoids	45% Min



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