

**TECHNICAL DATA**

<b>PRODUCT NAME:</b>	FibRefine HG
<b>ICON FOODS PRODUCT CODE NUMBER:</b>	1816
<b>DESCRIPTION:</b>	Partially Hydrolyzed Guar Gum, Agglomerated.
<b>COMPOSITION:</b>	Guar Gum.
<b>COUNTRY OF ORIGIN:</b>	India
<b>ALLERGENS:</b>	FibRefine HG does not contain any commonly known sources of allergens. Labeling is not required under the FDA Food Allergen Labeling and Consumer Protection Act of 2004 or EU Directive 2007/68/EC
<b>KOSHER:</b>	FibRefine HG is Kosher certified.
<b>BSE-TSE:</b>	No animal derived ingredients are used in the production of FibRefine HG.
<b>VEGAN/VEGETARIAN:</b>	Contains no animal ingredients or byproducts. Icon Foods has not conducted any studies with this product involving animal testing.
<b>BE/GMO:</b>	Does not require mandatory BE Disclosure. Product is Non-GMO.
<b>PACKAGING &amp; RECOMMENDED STORAGE CONDITIONS:</b>	FibRefine HG comes in a 10 kg bag. Store in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated. Shelf life is 24 months when stored under recommended conditions.
<b>REMARKS:</b>	This item is a raw material for commercial use only.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

TECHNICAL DATA (CONT.)

PRODUCT NAME: FibRefine HG

PARAMETERS	SPECIFICATIONS
TASTE	Characteristic
APPEARANCE	Coarser Powder
COLOR	White to Yellowish
VISCOSITY (5% SOLN, 5°C, mPA.s), Cps	< 13
DIETARY FIBER, % (db)	≥ 88
MOISTURE, %	≤ 10
WATER ACTIVITY	< 0.61
ASH, %	≤ 1.5
BULK DENSITY, (g/mL)	0.30 – 0.40
PARTICLE SIZE	≥ 90% Pass Through 40 Mesh
pH	6.0 – 7.0
AEROBIC PLATE COUNT, cfu/g	≤ 1000
<i>E. COLI</i> , /g	Negative
COLIFORM, cfu/g	≤ 10
YEAST & MOLD, cfu/g	≤ 100
SALMONELLA, /25g	Negative
LACTIC ACID BACTERIA (LAB), cfu/g	≤ 10



  
 Thomas J. King  
 Icon Foods, Inc.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

**CERTIFICATE OF ANALYSIS**
**PRODUCT NAME: FibRefine HG**
**LOT CODE: 1816 UU YY MM DD BB**
**MANUFACTURE DATE: MM/DD/YYYY**
**BEST BY: MM/DD/YYYY**
**INGREDIENTS: Guar Gum.**

ITEMS	STANDARD	RESULTS
TASTE	Characteristic	Complies
APPEARANCE	Coarser Powder	Complies
COLOR	White to Yellowish	Complies
VISCOSITY (5% SOLN, 5°C, mPA.s), Cps	< 13	Complies
DIETARY FIBER, % (db)	≥ 88	Complies
MOISTURE, %	≤ 10	Complies
WATER ACTIVITY	< 0.61	Complies
ASH, %	≤ 1.5	Complies
BULK DENSITY, (g/mL)	0.30 – 0.40	Complies
PARTICLE SIZE	≥ 90% Pass Through 40 Mesh	Complies
pH	6.0 – 7.0	Complies
AEROBIC PLATE COUNT, cfu/g	≤ 1000	Complies
<i>E. COLI</i> , /g	Negative	Complies
COLIFORM, cfu/g	≤ 10	Complies
YEAST & MOLD, cfu/g	≤ 100	Complies
SALMONELLA, /25g	Negative	Complies
LACTIC ACID BACTERIA (LAB), cfu/g	≤ 10	Complies

Oregon department of agriculture, food safety division establishment #88294  
 FDA food manufacturing facility #xxxxxxx6608

Remarks: This item is a raw material for commercial use only.

Storage: Store in a cool & dry location, not to exceed 85-degree Fahrenheit.  
 For long term storage, please keep refrigerated.

**ISSUED BY:**

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

## COUNTRY OF ORIGIN STATEMENT

Oregon Department of Agriculture, Food Safety Division Establishment #88294

This letter is to certify that FibRefine HG sold by Icon Foods, Inc. at the Portland, Oregon, USA facility, is manufactured in India.

If you have any questions, please contact Icon Foods Quality Assurance Division at 310-455-9876.

A handwritten signature in blue ink, appearing to read "TJ King".

Thomas J. King  
Icon Foods, Inc.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

**INGREDIENT STATEMENT****PRODUCT INGREDIENT LIST****PRODUCT NAME:** FibRefine HG**PRODUCT NUMBER:** 1816**INGREDIENTS    % RANGE COMPOSITION**

INGREDIENTS	% RANGE COMPOSITION
Guar Gum	100%

**ICON FOODS, INC.****19250 NE PORTAL WAY****PORTLAND, OR 97230****P: 310.455.9876**

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

## 100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: FibRefine HG

### NUTRITIONAL FACTS

Calories	195 kcal	
Total Fat	0 g	0%
Saturated Fat	0 g	0%
Trans Fat	0 g	
Cholesterol	0 mg	0%
Sodium	- mg	-%
Total Carbohydrate	89 g	32%
Dietary Fiber	85 g	270%
Total Sugars	0 g	
Includes 0g Added Sugars	0%	
Protein	1 g	
Vitamin D	0 mcg	0%
Calcium	- mg	-%
Iron	- mg	-%
Potassium	0 mg	0%

\*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

### CARBOHYDRATES

### AMOUNTS PER 100G

Total Carbohydrate	89.0g
Dietary Fiber	85.0g
Starch	0.0g
Sugars	0.0g
Sugar Alcohols	0.0g

### FATS & FATTY ACIDS

### AMOUNTS PER 100G

Total Fat	0.0g
Saturated Fat	0.0g
Monounsaturated Fat	0.0g
Polyunsaturated Fat	0.0g
Total Trans Fatty Acids	0.0g

### PROTEIN & AMINO ACIDS

### AMOUNTS PER 100G

Protein	1.0g
---------	------

### VITAMINS

### AMOUNTS PER 100G

Vitamin A	0.0 IU
Vitamin C	0.0 mg
Vitamin D	0.0 IU
Vitamin E (Alpha Tocopherol)	0.0 mg

### MINERALS

### AMOUNTS PER 100G

Calcium	- mg
Iron	- mg
Potassium	- mg
Sodium	- mg

### OTHER

### AMOUNTS PER 100G

Water	≤ 10.0 g
Ash	≤ 1.5 g

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

**SAFETY DATA SHEET**

**PRODUCT NAME:** FibRefine HG

**ICON FOODS, INC. – USA | PRODUCT #:** 1816

**CAS REGISTRY NUMBER:** 9000-30-0

**OREGON DEPARTMENT OF AGRICULTURE, FOOD & SAFETY DIVISION ESTABLISHMENT #**88294

**FDA FOOD MANUFACTURING FACILITY #**\*\*\*\*\*6608

**COMPLIANT WITH JECFA GUIDLINES**

<b>IDENTIFICATION:</b>	Commercial Name: FibRefine HG Icon Foods, Inc.
<b>COMPOSITION:</b>	Partially Hydrolyzed Guar Gum - Agglomerated CAS# 9000-30-0 Risk Phrases: None Safety Phrases 25-26: Not Mandatory
<b>HAZARDS:</b>	Not classified as dangerous according to directive 67/548/EEC or its amendments.
<b>FIRST AID MEASURES:</b>	Eye Contact: Wash with water or standard eye wash solution. Seek medical advice if irritation occurs and persists. Oral Ingestion: Essentially edible in small quantity with bland to bitter sweet aftertaste Skin Contact: Wash with water and mild soap.
<b>FIRE FIGHTING MEASURES:</b>	Non-combustible and presents no special fire hazard Extinguishing media: N/A Protective Equipment: Standard equipment
<b>ACCIDENTAL RELEASE MEASURES:</b>	Absorb into an inert material and scrape up. Remove residue by scrubbing with hot water or detergent solution.
<b>HANDLING &amp; STORAGE:</b>	Store in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated.
<b>EXPOSURE &amp; PERSONAL PROTECTION:</b>	In accordance with good industrial practice and handling, use standard eye protection.
<b>PHYSICAL &amp; CHEMICAL PROPERTIES:</b>	Physical Form: Powder Color: White to Yellowish Odor: -- Boiling Point: -- Melting Point: -- Viscosity @ 20 degree C: -- Flash Point: -- Flammability Solid/Gas: -- Auto Flammability: -- Specific Refractive: -- Explosive Properties: -- pH (100% Concentrate): -- Oxidizing Properties: -- Vapor Pressure: -- Density: -- Water Solubility: Soluble Other Solubility: In most Basic Food Grade Solvents Partition Coefficient: -- (Octanol/Water): -- Explosive Limits: --
<b>STABILITY &amp; REACTIVITY:</b>	Thermal Decomposition: Stable under normal conditions of use.
<b>TOXICOLOGICAL DATA:</b>	Oral: Essentially non-toxic and edible in small quantity. Dermal: Expected to be essentially non-toxic. Inhalation: Slight Ethanollic Sting – irritation

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

**ECOLOGICAL INFORMATION:**

Toxic Effects: None

Eye: Very Mild/Minimal – Not a transient Conjunctival Irritant at 10% concentrate in water (Eyetex classification).

Biodegradation: Expected to be ultimately biodegradable.

Fish Toxicity: No Data.

**DISPOSAL CONDITIONS:**

Dispose of according to local, state, and federal regulations.

**TRANSPORT INFORMATION:**

UN Number: N/A

UN Name: Not Assigned

IMDG Code/Class: Not Hazardous

IMDG Code Page No: N/A

ICAO/IATA Air Class: Non-Hazardous

ICAO/IATA Air Class Packing Group: N/A

RID/ADR Class: Non-Hazardous

ADNR Class: Non-Hazardous

**REGULATORY INFORMATION:**

Occupational Exposure Limits: N/A

**OTHER INFORMATION:**

Supplementary Dietary/Food Use: FDA GRAS Status within the USA

Information contained herein as well as any representations made regarding this information are believed to be accurate and reliable however no warranty or guarantee, express or implied, is made regarding information and/or product.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

**VERSION HISTORY**

VERSION #	DATE	REVISIONS	APPROVAL
1.1	October 21, 2025	Added Water Activity to parameter list.	ZN
1.2	January 21, 2026	Added Lactic Acid Bacteria (LAB) to parameter list.	ZN
1.3	January 27, 2026	Modified Ash limit to $\leq 2.0\%$	ZN
1.4	February 12, 2026	Modified APC to $\leq 1000$ cfu/g, Ash to $\leq 1.5\%$	ZN

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.