



exporter of  
across the

**Global**  
market

## Psyllium (Isabgol) Products

**Origin:** Gujarat, India | **Grade:** Commercial, Food, & Pharma

### 1. Psyllium Seeds (Plantago Ovata)

The raw seeds of the *Plantago ovata* plant, cleaned and polished. They are the source material for husk and powder but are also used directly in specific feed and culinary applications.

- **Image Recommendation:** *Close-up of small, boat-shaped, pinkish-gray to brown seeds.*
- **Technical Specifications:**
  - **Purity:** 98% to 99.5%
  - **Moisture:** 10% - 11% Max
  - **Foreign Matter:** 0.5% - 2% Max
  - **Salmonella / E. Coli:** Absent
- **Key Uses:**
  - **Bird Feed:** High-energy component for wild bird food mixes.
  - **Extraction:** Raw material for extracting mucilage or milling into flour.
  - **Culinary:** Used in traditional health drinks and cooling beverages.



## Psyllium Husk (Sat Isabgol)

The outer coating (epidermis) of the seed, separated through mechanical milling. This is the premium commercial product known for its high fiber content and swelling properties.

- **Image Recommendation:** *Heap of fluffy, light-colored (white to off-white) flakes. Texture should look light and airy.*
- **Grading System:** Graded by purity (percentage of husk vs. seed/dust).
- **Technical Specifications:**

Parameter	Grade 99%	Grade 98%	Grade 95%	Grade 85%
Appearance	Super White	White	Off-White	Light Brown
Swell Volume	≥ 50 ml/gm	≥ 45 ml/gm	≥ 40 ml/gm	≥ 35 ml/gm
Moisture	< 12%	< 12%	< 12%	< 12%
Total Ash	< 4.0%	< 4.0%	< 4.0%	< 4.0%
Acid Insoluble Ash	< 1.0%	< 1.0%	< 1.0%	< 1.0%
Light Extraneous Matter	1% Max	2% Max	5% Max	15% Max

- **Key Uses:**
  - **Pharma:** Main ingredient in bulk-forming laxatives (capsules/sachets).
  - **Food:** Natural thickener for ice creams, jams, and sauces



## Psyllium Husk Powder

Pulverized psyllium husk, available in various particle sizes (Mesh). It disperses more easily in water and flour mixes than whole husk.

- **Image Recommendation:** *Fine, creamy-white powder in a glass bowl or spoon. It should look like flour.*
- **Particle Size Options:** 40 Mesh (Coarse), 60 Mesh, 80 Mesh, 100 Mesh (Fine).
- **Technical Specifications:**
  - **Purity:** 95% - 99%
  - **Mesh Size:** 40 to 100 Mesh (ASTM)
  - **Swell Volume:** 40 - 50 ml/gm (Depending on mesh size; finer mesh may have slightly lower volume due to breakage of mucilage cells).
  - **Mucilage Content:** Positive
  - **Lead (Pb):** < 3 ppm
  - **Arsenic (As):** < 1 ppm
- **Key Uses:**
  - **Bakery:** Vital gluten substitute in **Gluten-Free Baking**. It provides elasticity and structure to bread and cakes.
  - **Beverages:** Added to health drinks and weight-loss shakes for satiety.
  - **Meat Industry:** Binder for sausages and minced meat products to retain moisture.



## Psyllium Khakha Powder (Industrial Dust)

A byproduct obtained during the processing of Psyllium seeds into husk. It contains part of the seed kernel and husk residue.

- **Image Recommendation:** *Tan or light-brown powder, slightly coarser texture than the pure husk powder.*
- **Technical Specifications:**
  - **Purity:** 60% - 70%
  - **Swell Volume:** 18 - 30 ml/gm
  - **Sand/Silica:** < 3% - 5%
  - **Moisture:** 12% Max
  - **Protein:** Higher than pure husk (approx. 15-17%) due to seed germ presence.
- **Key Uses:**
  - **Animal Feed:** Highly effective binder and fiber source for cattle and horse feed.
  - **Construction:** Used in landscaping and pathway construction (binds with crushed stone to form a solid surface known as "stabilized decomposed granite").
  - **Veterinary:** Prevents sand colic in horses by clearing sand from the gut.



## Industry Applications Guide

### **Pharmaceutical & Nutraceutical**

- **Application:** Colon cleansing, cholesterol reduction, blood sugar regulation.
- **Preferred Product: Psyllium Husk (99% or 98%) or Micronized Powder.**
- **Function:** Hydrophilic mucilage forms a gelatinous mass that promotes peristalsis and absorbs toxins.

### **Bakery & Food Processing**

- **Application:** Gluten-free bread, pizza bases, cookies, keto diet foods.
- **Preferred Product: Psyllium Husk Powder (60-100 Mesh).**
- **Function:** Acts as a binder (replacing gluten), improves crumb texture, and extends shelf life by retaining moisture.

### **Cattle & Animal Feed**

- **Application:** Pelleted feed binding, digestive health supplements.
- **Preferred Product: Psyllium Khakha Powder & Psyllium Seeds.**
- **Function:**
  - **Cattle:** Increases milk fat percentage and improves digestion.
  - **Horses:** Crucial for removing sand accumulation in the intestine (Sand Colic prevention).
  - **Pets:** Fiber supplement for weight management in dogs and cats.

### **Industrial & Technical**

- **Application:** Eco-friendly landscaping, tackifiers, bioplastics.
- **Preferred Product: Psyllium Khakha Powder.**
- **Function:** When wetted and rolled, the powder binds soil and crushed stone aggregates to create durable, non-eroding walking paths and parking lots.