Konark®
HERBALS & HEALTH CARE

FIBREGLIDE™

The Functionally Engineered Psyllium Husk to Soothe the Gut Smoothly



Problems with Standard Psyllium Husk

Solubilisation Kinetics
Rapid macro-aggregation causes lumpy, non-homogeneous gelation on contact with water.

Organoleptic Profile
High levels of volatile earthy/grassy notes reduce palatability in finished formats.

Rheological Control
High-viscosity build creates a gritty texture and a real choking hazard for daily use.

Particulate Dynamics
High airborne dust generation during handling poses a respiratory hazard on the line.

Surface Energy
Poor flow and adhesion to processing equipment slow blending and packaging.

Hygroscopic Profile
Highly hygroscopic material is prone to caking and degradation over shelf life.

FIBREGLIDE™

- Branded Psyllium Husk Specially Engineered For

Instant Dispersion | **Improved Stability** | **Superior Palatability**

Suitable for Nutraceutical, Functional Food and Pharmaceutical applications

WHY? FIBREGLIDE™



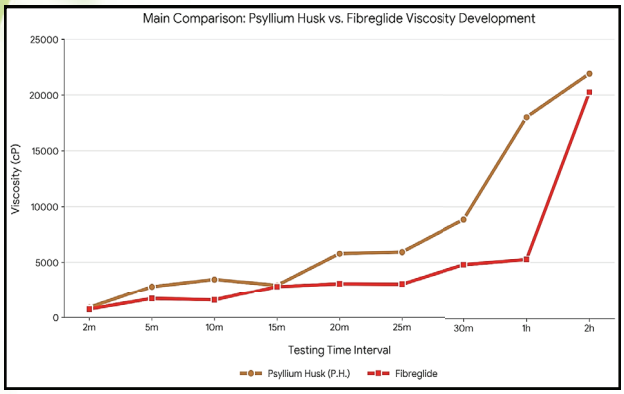
Attributed Advantages of FIBREGLIDE™ over Standard Psyllium Husk

Parameter	Standard Psyllium Husk	FIBREGLIDE™
Solubilisation Kinetics	Rapid macro-aggregation; lumpy, non-homogeneous gelation.	Instantaneous hydro-dispersion; smooth, lump-free solution.
Organoleptic Profile	High volatile earthy/grassy notes.	Molecular taste-masking; neutral and palatable.
Rheological Control	High-viscosity "choking" hazard; gritty texture.	Regulated swelling; smooth, non-Newtonian mouthfeel.
Particulate Dynamics	High airborne dust; respiratory hazard.	Reduced environmental dust; safer industrial handling.
Surface Energy	Poor flow; sticks to processing equipment.	Laminar-flow morphology; free-flowing and easy to fill.
Hygroscopic Profile	Highly hygroscopic; prone to caking/degradation.	Moisture-passivated barrier; superior shelf-life stability.

FIBREGLIDE™

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COMPARATIVE RHEOLOGY STUDY
In-vitro Viscosity build-up in water



Summary

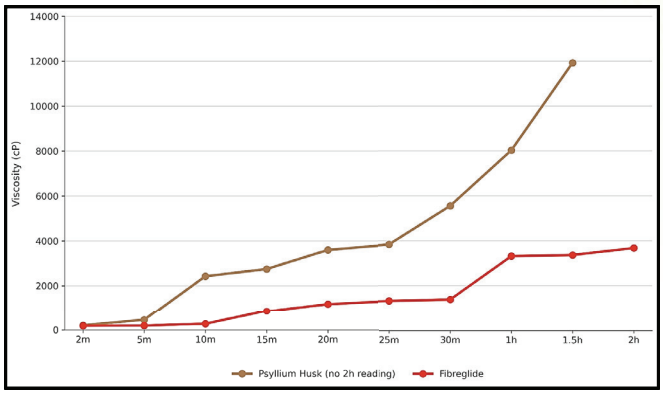
FIBREGLIDE™ builds viscosity more gradually than psyllium husk through the first 30 minutes, reaching roughly half the apparent viscosity at the 30-minute mark (4,805 vs 8,865 cP).

By 2 hours both ingredients converge to a comparable plateau (~20,000–22,000 cP), suggesting similar ultimate gel strength with a longer, more controllable hydration window for FIBREGLIDE™

- Slower onset
- Same impact

Apparent viscosity (cP) over 2 hours of hydration, Fungilab viscometer

COMPARATIVE RHEOLOGY STUDY
Bio-kinetic Viscosity build-up in 0.1N HCl



Summary

In acidic (stomach mimic) media, viscosity of FIBREGLIDE™ build-up is markedly slower and lower in magnitude than psyllium husk at every time point through 90 minutes.

The psyllium husk sample could not be read at 2 hours (gel too thick for the spindle), while FIBREGLIDE™ remained measurable throughout a potentially meaningful handling advantage in acidic formulations.

- Loose dispersed gel
- Flow ability in acid

Apparent viscosity (cP) over 2 hours of hydration, Fungilab viscometer

COMPARATIVE FUNCTIONAL PROPERTIES
Water holding capacity (WHC)

76.15%	72.68%
Psyllium Husk	FIBREGLIDE™

FIBREGLIDE™ holds about 73% of its dry weight in water after spinning.
This amount is nearly identical to psyllium husk, differing by less than 5%.

COMPARATIVE POWDER PROPERTIES
Bulk Density (BD)

1 g/mL	0.4 g/mL
Psyllium Husk	FIBREGLIDE™

Native pH

6.0–6.2	4.7–5.0
Psyllium Husk	FIBREGLIDE™

FIBREGLIDE™ is slightly acidic, while psyllium husk is near to neutral.
This results manages the taste, stability, and formulation of the final product.

Tapped Density (TD)

1.214 g/mL	0.625 g/mL
Psyllium Husk	FIBREGLIDE™

- Psyllium Husk possesses a highly dense packing matrix. Conversely, FIBREGLIDE™ displays significantly lower bulk density
- The lower density profile of FIBREGLIDE™ points to a highly porous microstructural nature, while retaining a water-holding capacity functionally identical to Psyllium Husk.

FIBREGLIDE™

Recommended Daily Dose
6-8 grams with 200 - 250 ml Water/Fluid
Direction: Stir Well before Consuming.

FIBRE GLIDE™

The Functionally Engineered Psyllium Husk to Soothe the Gut Smoothly

Product Features:

- **Improved Handling:**
  Optimised granular morphology reduces production downtime during blending and high-speed packaging.
- **Environmental Mitigation:**
  Significant reduction in airborne particulates ensures a cleaner, safer manufacturing environment.
- **Supports Gut Health:**
  The prebiotic effect of FIBRE GLIDE™ helps nourish beneficial intestinal bacterial.
- **Bridges the Daily Fibre gap:**
  Replenishes to maintain the desired fibre requirement in the body.

FIBRE GLIDE™ OFFERS

Enhanced Consumer Experience:

- **Instant Dispersion:**
  Seamlessly integrates into water, juices, or smoothies without clumping.
- **Comfortable Consumption:**
  Controlled gelation kinetics eliminate grittiness and choking risks for daily routine use.
- **Versatility:**
  Neutral flavour profile allows for high-versatility in flavored or unflavored health beverages.





Scan for Product Video

Konark® HERBALS & HEALTH CARE

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