



GRAINGUARD

Make Grains Fresh Again



GRAINGUARD

HERMETIC PACKAGING SOLUTIONS

GrainGuard Products



GrainGuard Sample Bags

- To preserve the scent and freshness of grains, use a multilayered hermetic storage bag and an environmentally friendly plastic bag with strong oxygen and moisture barrier qualities.



GrainGuard Jute Liners

- Preserve the freshness and scent.
- Incredibly strong.
- Utilising food-grade ingredients.
- No need to use chemicals or pesticides.
- Reusable and recyclable.



GrainGuard Container Liners

- Easy to install assemble with minimal effort,
- Allows use of forklifts
- Tough, durable polypropylene that is recyclable and reusable
- Reusable and Recyclable



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HERMETIC PACKAGING SOLUTIONS

GrainGuard Products



GrainGuard FIBC Pouch

- Effectively eliminates insect infestation while products are in transit
- Reduces the oxidation of commodities and the development of microorganisms
- Designed for easy installation
- Inhibits and controls mold growth-producing aflatoxins and infestations
- Reduces fumigation costs



GrainGuard Indoor Cocoon

- Effectively eliminates insect infestation while products are in transit
- Reduces the oxidation of commodities and the development of microorganisms
- Designed for easy installation
- Inhibits and controls mold growth-producing aflatoxins and infestations
- Reduces fumigation costs



GrainGuard Cocoon

- Low permeability to air and moisture
- Enables chemical-free storage and long-term preservation
- Allows monitoring of internal oxygen and relative humidity levels
- Optional fumigation ports (inlet/outlet) available as an add-on
- Supports safe, organic fumigation to protect against insect infestation



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GrainGuard Products



GrainGuard Ton Bags

- Fit for storage of organic products
- Worry-free shipping and warehousing of bulk commodities
- Prevents cross infestation of stocks in the warehouse
- Ease of mechanical operations using forklift
- Preserves taste, color, and aroma
- Inhibits mold growth which produces aflatoxins, a major public health hazard
- Made of hermetic material with superior barrier properties
- Secured closing with the use of zipper
- Maintains quality and preserves germination potential



GrainGuard Vacuum Bag

- Optimized storage space/easy stacking
- Sealed barrier from external elements
- Increases commodity shelf life
- Protects against mold growth and insect infestation
- Retains taste, color, and aroma of products
- Improves product presentation
- Reduces product loss
- Stand-alone bag that eliminates the use of any type of conventional bag
- Fit for storage of organic products



GrainGuard Coffee Trays

- Sturdy & Stylish Design: Made from high-quality materials, our trays ensure durability while adding a touch of sophistication to your table setting.
- Spacious & Versatile: Ample space to hold coffee cups, saucers, spoons, and even a small bowl for treats like sugar cubes or cookies, inspired by traditional coffee-serving etiquette.
- Anti-Slip Surface: A textured or raised-edge design prevents cups from sliding, making it ideal for home use, cafes, or special gatherings.
- Easy Maintenance: Clean effortlessly with a dry cloth.



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GrainGuard Sample Bags

Perfect as a storage and retail packaging solution to keep your commodities safe anywhere, anytime! The GrainGuard Sample Bags is a resealable bag for commodity samples with a capacity of up to 2,500 grams. It is made of a hermetic material with an air-tight single-track zipper to maintain the commodity's freshness.

The design features a two-tone style with a transparent front for easy viewing and branding space, while the back side is green to protect against light damage. For longer storage, the GrainGuard Sample Bags has a probation of 2 centimeters on top of the ziplock for heat welding as well as a tear notch on top for safe and easy cutting of the welded portion.

FEATURES

Air-tight, moisture-tight, and reusable

Retains the taste, color, and aroma of commodities

2-toned for easier inspection and adequate UV protection

Made of safe food-grade material

Protects against mold growth and insect infestation

Maintains the germination and vigor of stored seeds

Stand-up pouch featuring ample space for logo customization

Fit for the storage of organic products

APPROXIMATE CAPACITY

Size	Capacity g (lbs)
Small	250 (0.55)
Medium	500 (1.1)
Large	1000(2.3)
Extra Large	2500 (5.5)

APPROXIMATE CAPACITY

Size	Dimension (L x W), cm(in)
Small	17 x 13 (6.7 x 4.5)
Medium	23 x 16 (9.1 x 6.3)
Large	28 x 18 (11.1 x 7.1)
Extra Large	35 x 25 (13.8 x 9.8)

Disclaimer: Heatsealing of the bags is recommended for long-term storage and transport. The approximate capacity provided above is based on our computation. Capacity variance based on the actual commodity stored will apply.

PRODUCT SPECIFICATION



MATERIAL High strength PE with Barrier Layer

THICKNESS, MICRONS
100 ± 5%

PRODUCT LIFE
3 Years



GRAINGUARD

HERMETIC PACKAGING SOLUTIONS



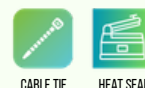
GrainGuard Basic Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 60-70kgs/ 110-154 lbs of Green
Coffee beans / Cocoa beans.

Size: L / 75cm(W) x 130cm(L)

Standard Packaging Per Box	10 Pcs	200 Pcs
Standard Packaging Per Box	2.00 Kg	33.00 Kg
Measurement per Box (LxBxH)cm	42x34x4	81x47x14



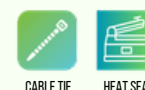
GrainGuard Basic Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 25-35kgs/ 55-77 lbs of Green
Coffee beans / Cocoa beans.

Size: M / 56cm(W) x 94cm(L)

Standard Packaging Per Box	10 Pcs	300 Pcs
Standard Packaging Per Box	1.50 Kg	27.00 Kg
Measurement per Box (LxBxH)cm	59x26x3	61x50x16



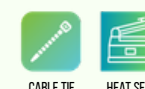
GrainGuard Basic Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 10-20kgs/ 22-44 lbs of Green
Coffee beans / Cocoa beans.

Size: S / 40cm(W) x 70cm(L)

Standard Packaging Per Box	10 Pcs	400 Pcs
Standard Packaging Per Box	1.20 Kg	25.00 Kg
Measurement per Box (LxBxH)cm	59x26x3	81x47x14





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HERMETIC PACKAGING SOLUTIONS



GrainGuard Pro Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 60-70kgs/ 110-154 lbs of Green Coffee beans / Cocoa beans.

Size: L / 75cm(W) x 130cm(L)

Standard Packaging Per Box	10 Pcs	200 Pcs
Standard Packaging Per Box	2.00 Kg	33.00 Kg
Measurement per Box (LxBxH)cm	42x34x4	81x47x14



CABLE TIE HEAT SEAL



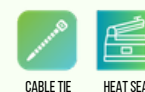
GrainGuard Pro Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 25-35kgs/ 55-77 lbs of Green Coffee beans / Cocoa beans.

Size: M / 56cm(W) x 94cm(L)

Standard Packaging Per Box	10 Pcs	300 Pcs
Standard Packaging Per Box	1.50 Kg	27.00 Kg
Measurement per Box (LxBxH)cm	59x26x3	61x50x16



CABLE TIE HEAT SEAL



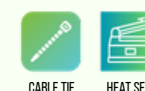
GrainGuard Pro Jute Liners

Multilayered PE Bags with Cable ties & "No Hook" Stickers.

Suitable for 10-20kgs/ 22-44 lbs of Green Coffee beans / Cocoa beans.

Size: S / 40cm(W) x 70cm(L)

Standard Packaging Per Box	10 Pcs	400 Pcs
Standard Packaging Per Box	1.20 Kg	25.00 Kg
Measurement per Box (LxBxH)cm	59x26x3	81x47x14



CABLE TIE HEAT SEAL



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HERMETIC PACKAGING SOLUTIONS



GrainGuard Container Liners

The GrainGuard Container Liners maintains and safeguards the quality of dry agricultural products that are transported in shipping containers in bags or on pallets. A patented barrier layer and high-strength polythene make up the GrainGuard Container Liners. Nylon thread and weaved opp tape are used for simple installation. Insect infestation is prevented, condensation effects are lessened, and the entrance of moist ambient air that promotes the formation of mould is restricted by its exceptional gas and moisture shielding qualities. The

preserves GrainGuard Container Liners reliably commodities without sacrificing quantity or quality, even when they are stored in bags during transoceanic transport or storage.

FEATURES



Preserves the taste, color, and aroma of commodities



Easy to install in a shipping container



Used for bagged/palletized goods in 20ft. or 40ft. shipping containers



Fit for the storage of organic products



Effectively eliminates insect infestation while products are in transit



Made of hermetic multilayer film with superior gas and moisture barrier properties



Inhibits mold growth which causes aflatoxins, a major public health hazard



Maintains the quality and preserves germination potential

APPROXIMATE CAPACITY

	20 GP	40HC
1,000 Kg FIBC	20	40
50 Kg Bag	400	800
20 Kg Bag	800	1600

DIMENSIONS

	20 GP	40HC
1,000 Kg FIBC	900 x 500 x 33	1,500 x 500 x 66
20 Kg Bag	(354 x 197 x 1,165)	(591 x 197 x 2,331)



PRODUCT SPECIFICATION



MATERIAL

High strength PE with Barrier Layer



THICKNESS, MICRONS

100 ± 5%



PRODUCT LIFE

3 Years



ACCESSORIES

Ropes, Drying agents



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HERMETIC PACKAGING SOLUTIONS



GrainGuard FIBC Pouch

The GrainGuard FIBC Pouch is an innovative solution that helps protect commodities while in long journeys. This outer liner for Flexible Intermediate Bulk Containers (FIBC; also known as big bags or tote bags) is made of hermetic lightweight polyethylene (PE) with a barrier layer designed to preserve and protect dry agricultural commodities. The hermeticity of this solution keeps the risk of moisture damage, mold growth, and insect infestation from affecting commodities stored in FIBCs.

FEATURES

 Worry-free transport & storage, secured from insect infestation

 Prevents damage due to condensation

 Inhibits mold growth which may cause aflatoxins, a major public health hazard

 Preserves the taste, color, and aroma

 WEases mechanical operations using forklift

 Fit for the storage of organic products

 Maximizes the space in shipping containers; can fit up to two FIBCs per pouch

 Maintains the quality and preserves germination potential

APPROXIMATE CAPACITY

Size	Baffle FIBC
Small	1
Medium	2

DIMENSIONS

Size	Dimension (L x W), cm(in)
Small	115 x 115 x 110 (45 x 45 x 43)
Medium	115 x 115 x 220 (45 x 45 x 87)


Optimal for maximizing space in intermodal containers, the GrainGuard FIBC Pouch can accommodate up to two (2) stacked FIBCs placed on pallets, which allows ease of mechanical operations when forklifts are used to relocate the commodities.


Inlet and Outlet Ports


The GrainGuard FIBC Pouch also has a Gas Hermetic Fumigation (GHF) version that comes with an inlet port for easy fumigation. It is designed for CO₂ fumigation to immediately control any infestation using a CO₂ cylinder.



PRODUCT SPECIFICATION

 **MATERIAL**
High strength PE with Barrier Layer

 **THICKNESS, MICRONS**
100 ± 5%

 **PRODUCT LIFE**
2 Years



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HERMETIC PACKAGING SOLUTIONS



GrainGuard Indoor Cocoon

The GrainGuard Indoor Cocoon is a low-cost alternative that has all the gastight advantages of the Cocoon. It is designed for one-time use but can be reused as long as the material remains undamaged. Made with lightweight polyethylene materials, the GrainGuard Indoor Cocoon acts like a large pouch, wherein commodities stored in boxes, bags, or big bags are loaded through the top opening and sealed using the airtight zipper.

FEATURES



Worry-free transport & storage, secured from insect infestation



Prevents damage due to condensation



Inhibits mold growth which may cause aflatoxins, a major public health hazard



Preserves the taste, color, and aroma



Eases mechanical operations using forklift



Fit for the storage of organic products



Maximizes the space in shipping containers; can fit up to two FIBCs per pouch



Fit for the storage of organic products

APPROXIMATE CAPACITY

Size	Capacity 30kg (lbs)	Capacity 60kg (lbs)
Small	400 Bags	200 Bags
Medium	1400 Bags	700 Bags
Large	2900 Bags	1400 Bags

DIMENSIONS

Size	Dimensions (L x W x H). cm(inch)
Small	250 x 230 x 230 (98 x 91 x 91)
Medium	500 x 325 x 300 (197 x 128 x 118)
Large	500 x 500 x 400 (197 x 197 x 157)



PRODUCT SPECIFICATION



MATERIAL

High strength PE with Barrier Layer



THICKNESS, MICRONS

100 ± 5%



PRODUCT LIFE

2 Years



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HERMETIC PACKAGING SOLUTIONS



GrainGuard Cocoon

The GrainGuard Cocoon is a flood-protected and hermetic storage solution designed to safely store dry agricultural commodities without the need for chemicals. Made of flexible UV-resistant Polyvinyl Chloride, the GrainGuard Cocoon guards against rodent attacks and prevents the exchange of air and moisture. It can also protect products from being damaged by floods below its zipper line.

APPROXIMATE CAPACITY


Product	Size	Capacity	
Cocoon	5 MT	25kg (lbs)	200 Bags
		50kg (lbs)	100 Bags
Cocoon	20 MT	25kg (lbs)	800 Bags
		50kg (lbs)	400 Bags
Cocoon	100 MT	25kg (lbs)	4000 Bags
		50kg (lbs)	2000 Bags
Cocoon	300 MT	25kg (lbs)	12000 Bags
		50kg (lbs)	6000 Bags


DIMENSIONS

Product	Size	L x W x H (m)
Cocoon	5 MT	2.98 x 1.65 x 1.5
Cocoon	20 MT	3.98 x 3.8 x 2.0
Cocoon	100 MT	8.6 x 5.8x 3.0
Cocoon	300 MT	11.88 x 11.77 x 3.0



PRODUCT SPECIFICATION

 **MATERIAL**
Polyvinyl Chloride (PVC)+High Barrier Layer

 **THICKNESS**
0.83 mm (0.033 inch) ± 7%

 **PRODUCT LIFE**
10 Years



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GrainGuard Vacuum Bag

The GrainGuard Vacuum Bag™ is made of high-strength PE with excellent gas smooth-surface bags.

It is recommended to store and transport these vacuum bags inside a packaging box for added protection. Using the Vacuum Bag, commodities can be stored for prolonged periods without the risk of moisture ingress, all the while

Bag also protects commodities from insect infestation and mold growth.

GrainGuard Vacuum Bag

SIZE	APPROXIMATE CAPACITY kg (lbs) Based on green coffee	imensions (L x W x Thickness), cm (inch)	
		EMPTY	FILLED
Extra Small	4-6 (8.8-13.2)	EMPTY	55 x 30 (21.7 x 11.8)
		FILLED	35 x 20 x 10 (13.8 x 7.9 x 3.9)
Small	10-15 (22-33.1)	EMPTY	72 x 46 (28.3 x 18.1)
		FILLED	42 x 31 x 15 (16.5 x 12.2 x 5.9)
Medium	16-20 (35.3-44.1)	EMPTY	80 x 50 (31.5 x 19.7)
		FILLED	48 x 35 x 15 (18.9 x 13.8 x 5.9)
Large	21-25 (46.3-55.1)	EMPTY	92 x 50 (36.2 x 19.7)
		FILLED	60 x 35 x 15 (23.6 x 13.8 x 5.9)
Extra Large	26-30 (57.3-66.1)	EMPTY	104 x 50 (40.9 x 19.7)
		FILLED	72 x 35 x 15 (28.3 x 13.8 x 5.9)



GrainGuard Ton Bags

The GrainGuard Ton Bags FIBC Hermetic Liner is a liner specifically designed for flexible intermediate bulk containers (FIBC). These are high - strength polyethylene hermetic liner with moisture and gas - barrier properties that is ideal for storing dry agricultural commodities in warehouses in semi bulk, preventing moisture ingress and oxidation. The FIBC Hermetic Liner includes a downspout at the bottom for convenient grain discharge and can also be fumigated with carbon dioxide. GrainGuard delivers only the Hermetic liner, FIBC is not included. GrainGuard's hermetic technology allows organic storage of dry agricultural commodities. It offers a green solution and the benefits of complete protection from insect damage, moisture damage, molds, fungi, and its consequent health hazards without the use of harmful fumigants and other chemicals

PRODUCT SPECIFICATION

APPROXIMATE CAPACITY (kg)	Dimensions	
1500kg	FIBC Hermetic Liner	(L x W),cm (inch) 325 x 240 (128x 94.5)
	FIBC Outer Bag without baffles	(L x WxH),cm (inch) 110 x 115x 110 (43.3 x 45.3x 43.3)