



**PROTECTS LOOSE OR BULK DRY
AGRICULTURAL COMMODITIES
WHILE IN TRANSIT.**



GrainPro® TranSafeliner™ Bulk (Patented)

Fits 20-footer shipping containers, and designed to minimize the effects of condensation and stop the infestation of bulk agricultural commodities during transit.

- **Quantity and quality preservation of loose dry agricultural commodities**

Made of Ultra Hermetic multi-layer film with superior gas and moisture barrier properties to restrict the entry of oxygen, moist ambient air, inhibiting mold growth and controlling infestation, hence, preserving the quality and minimizing post-harvest losses of bulk commodities in transit.

- **Designed for mechanical loading**

Comes with a bulkhead, to prevent bulging, and loading ports, for easy loading using a pneumatic blower.

- **Cost-efficient transport and storage solution**

Eliminates packaging and labor costs. Easy to install in a standard shipping container using a simple rope system and can be used repeatedly if not punctured.

- **"Green" technology**

Certified-for-organic-use that can control and prevent infestation without using chemicals or fumigants.

Also Available:

TranSafeliner (TSL) Ultra-Hermetic™ liner for 20' or 40' shipping containers.

TranSafeliner G-HF (TSL G-HF) with inlet port for fumigation.

TranSafeliner Indoor (TSL Indoor) for indoor storage.

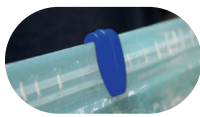
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How does Ultra-Hermetic™ Technology Work?

Ultra-Hermetic™ technology is a storage system that is sufficiently hermetic to preserve the quality and the quantity of dry agricultural commodities without using chemicals or pesticides. Commodities are confined in an airtight environment to create a low oxygen atmosphere using insect respiration which results in 100% insect mortality of all life stages. To accelerate the natural process, gas (carbon dioxide) is injected.

COMPONENTS



ZIPPER SLIDER



BULK HEAD



PULLING STRING (1 LOOP)



RATCHET BUCKLE



ROPE BRACKET

PRODUCT SPECIFICATIONS

PARAMETERS	TSL BULK
Material	Multi-layer PE
Thickness, mm	0.1
Weight, g/m ²	97.5
Color	Green
Closing Mechanism	2-track zipper and combo zipper slider
Packed Dimension, cm	100 x 50 x 20
Packed Weight, kg	14.5
Oxygen Transmission Rate (OTR), cc/m ² /day at 0.1 MPa	2
Water Vapor Transmission Rate (WVTR), g/m ² /day	2

BULKHEAD	
Material	Woven PE
Dimension, m	2.31 x 2.42
Material Weight, g/m ²	320
Thickness, mm	0.51

OTHER GRAINPRO TSL PRODUCTS:



TRANSAFELINER



TRANSAFELINER G-H



TRANSAFELINER INDOOR

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Worldwide distributors and specifications for the entire product lines are available at www.grainpro.com

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