



**GMD
ENTERPRISE**

**Manufacturer of VCI
Packaging Products, Seaworthy
Packaging, Long Term Preservation,
Dunnage Bags & Desiccants**

ABOUT US

GMD Enterprise stands at the forefront as a premier supplier of top-quality packaging materials, specializing in HDPE Woven Fabric, PP Woven Bags, and VCI Packaging Products. With a vibrant presence in the industry, we take pride in our successful four-year operations. Our unwavering commitment to excellence and customer satisfaction has solidified our position as a trusted partner, offering innovative and reliable packaging solutions.

At GMD Enterprise, we excel in manufacturing tailor-made products to meet specific requirements. Our proactive approach has enabled us to actively export to the MENA region while consistently exploring new opportunities. Committed to quality, we provide the best services to facilitate smooth transactions and ensure timely deliveries.

Experience the GMD difference, where the convergence of quality and innovation sets us apart in the market. Join us in shaping a future of unparalleled excellence in packaging solutions.



VISION

Enhancing the value chain by providing innovative, simplified yet cost effective and intelligent comprehensive solutions with committed approach in creating and adding value to the sustainable socioenvironmental system.

MISSION

GMD Enterprise mission is to provide world class solutions and achieve solid, long-term relationships with all our partners and clients. We will be achieving this by promoting teamwork, encouraging personal development and recognizing accomplishment with solid support from our Investors & Stake Holders.

VALUES



INNOVATION

We think out of the box to develop unique and simplified solutions to resolve complex challenges and also take calculated risks. We believe in stretching ourselves for better ways to create equal opportunities to our employees, strengthening our organisation and satisfy our highly esteemed clients.



EXCELLENCE

Excellence in completing all tasks to perfection in the set time ; as we believe the one who strive to do more reap great rewards. A high level of customer service sets us apart from the competitors.



INTEGRITY & TRUST

We believe in valuing honesty, transparency and dedication in doing what is best for our elite customers. Our clients faith in our company's high-quality products and services have built a strong reinforced business relationships.



PASSION

We are passionate about leading the company globally with our class quality products and services. Our compassion and empathy about products and services have led to high customer retention over years globally.

01

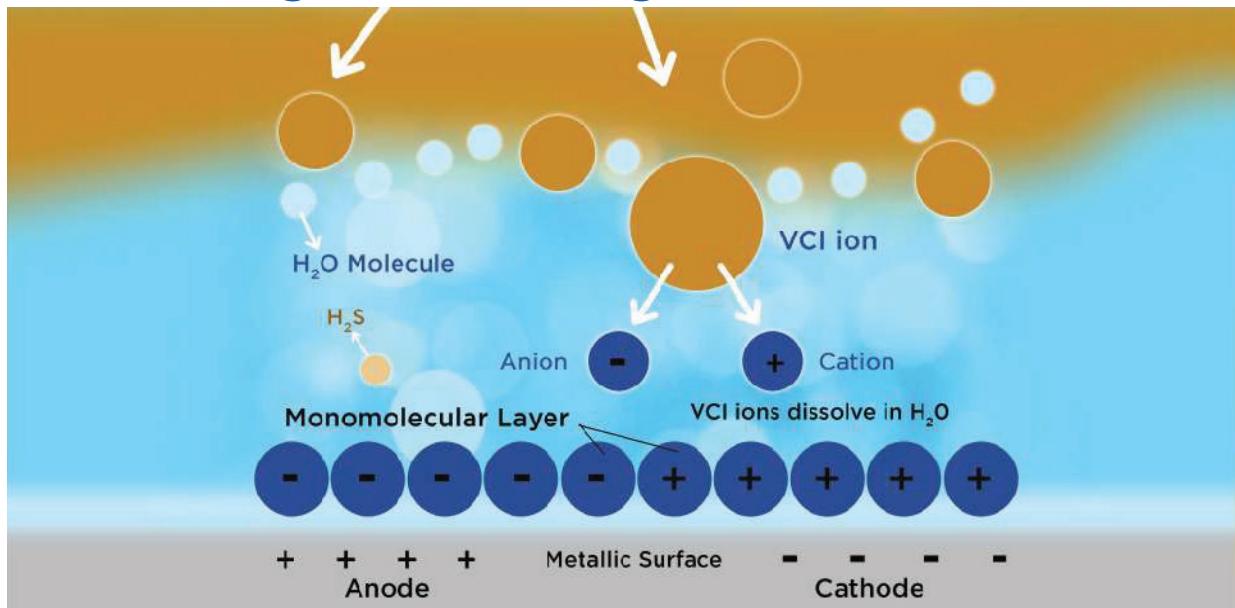
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VAPOR CORROSION INHIBITOR

High Performing VCI Chemical



VCI stands for Volatile or Vapor Corrosion Inhibitor. VCI is been devised in-house to be infused into liquids, desiccants, films, paper, powder, emitter, tablet and various types of packaging materials. It is a class of high performing chemical compounds that sublimit anti-corrosive vapors, wherein the active VCI ions travel towards the metal surface to form a mono-molecular layer that acts as a barrier between the atmosphere and the meatal surface.

How Does VCI Works?

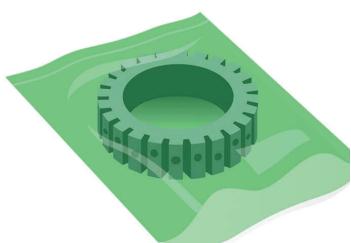
- ⌚ VCI vaporizes and ionizes
- ⌚ VCI Ions always travel towards the metal
- ⌚ VCI Migrates to resessed aread and cavities
- ⌚ VCI Ions dissolve in the electrolyte (Moisture)
- ⌚ VCI Ions form a thin monomolecular protective film on the metal surface that acts as a barrier
- ⌚ VCI re-heals and self-replenishes

VCI FILMS AND BAGS

Description:

VCI POLY (Vapor Corrosion Inhibitor) bags provide effective corrosion protection to all types of metals. Simply place dry and clean metal parts inside a VCI POLY bag, fold or seal and enjoy corrosion protection free of rust, tarnish, stains, white rust and corrosion for up to 2 - 5 years. VCI POLY eliminates the need for messy oils, greasing, desiccant, solvent or other potentially hazardous materials. VCI bags film and sheets are non-toxic and recyclable.

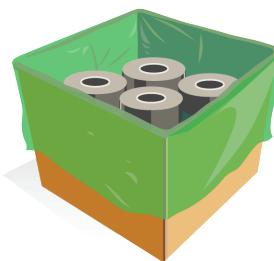
Metals packaged in VCI POLY are continuously protected from salt, humidity, condensation, moisture, atmospheric contaminants and galvanic corrosion caused by dissimilar metals. The VCI Vapors vaporize and condense on all metal surfaces in the enclosed package.



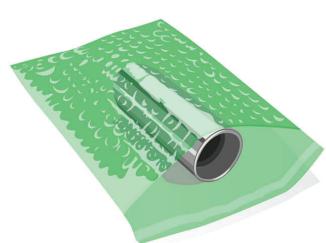
VCI FLAT BAGS



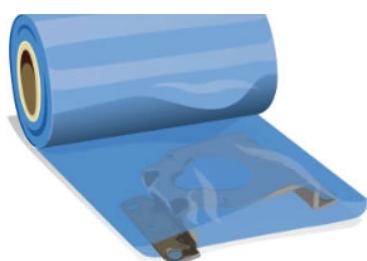
VCI ZIPPER BAGS



VCI GUSSETED BAGS



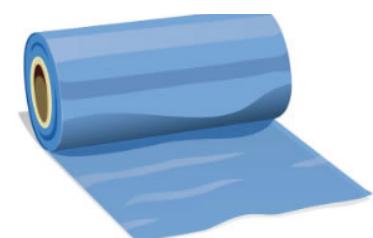
VCI BUBBLE BAGS



VCI POLY TUBING



VCI POLY SHEETING



VCI POLY WEAVE STEEL WRAP

METALS PROTECTED

- Aluminum • Galvanized Steel • Cast Iron
- Carbon Steels • Silicon Steel • Stainless Steel • Silver • Copper • Brass • Solder

VCI POLY PHYSICAL PROPERTIES

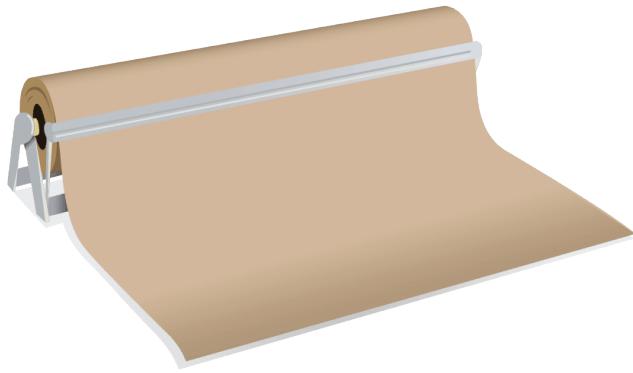
VCI POLY specifications varies from 75 microns to 200 microns.

SIZES AVAILABLE

VCI POLY is available in stock and custom size and thickness designed to meet your individual requirements including oversized VCI shrouds, heat seal-able bags, bags perforated-on-rolls, individual cut bags, sheets perforated-on-rolls, auto bags, VCI stretch wrap, VCI sheet on roll, tubing and other custom configurations.

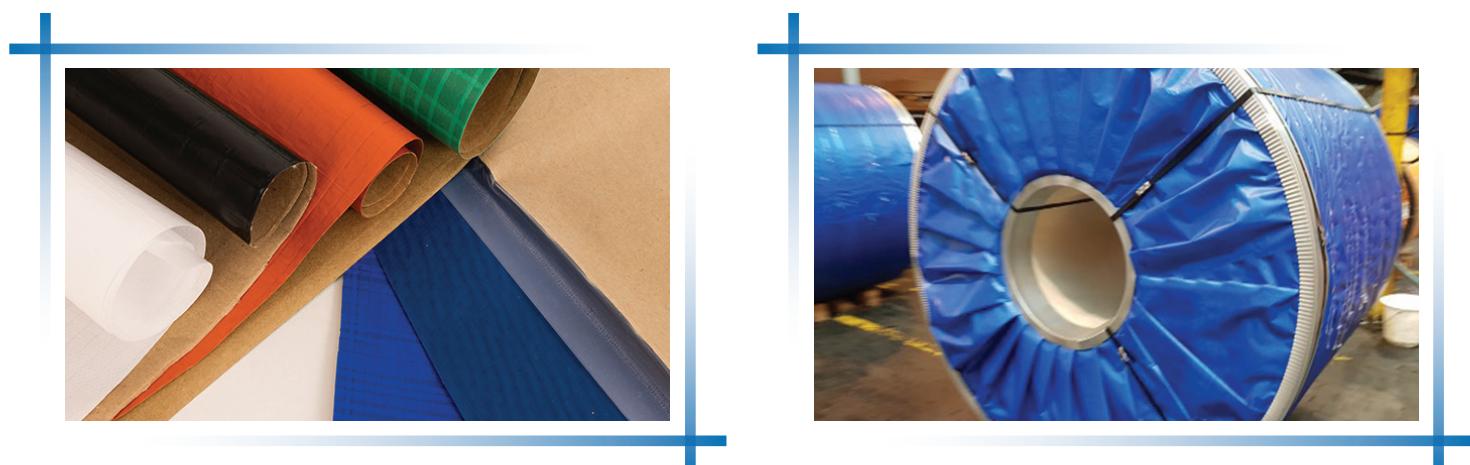
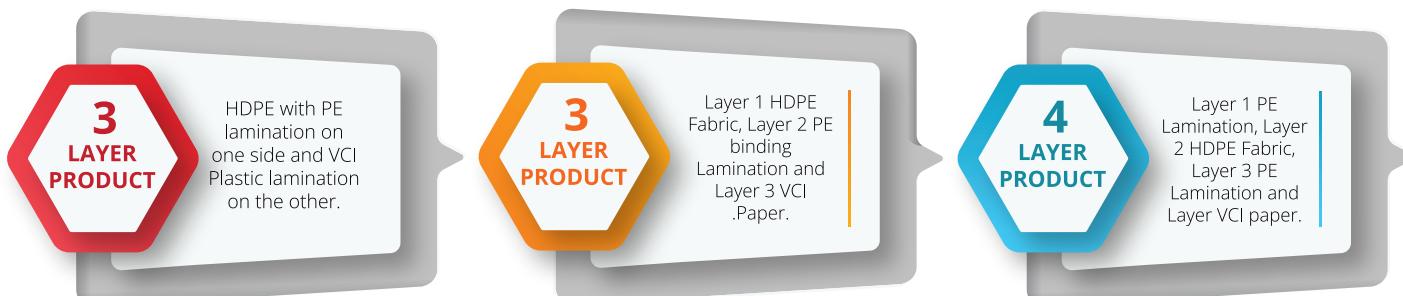
TYPICAL PROPERTIES	LDPE	LLDPE
TENSILE STRENGTH PSI	2450 - 3500	4100 - 6200
ELONGATION %	350 - 700	570 - 900
TEAR RESISTANCE	1200 - 1500	2280 - 4000
DART IMPACT (G)	100 - 110	570 - 1000

VCI HDPE LAMINATED WITH PAPER



The VCI HDPE Laminated with Paper are Coil Wrape that is the premium corrosion inhibiting reinforced paper in the industry. The laminated papers provide ultimate corrosion protection for both ferrous and non-ferrous metals. It eliminates the need to stock a variety of papers for all the different types of metals and alloys you need to protect. Additionally, it is non-toxic and doesn't contain any nitrites, phosphates, silicates or other hazardous compounds.

VCI HDPE Laminated with Paper are made from the highest quality neutral natural kraft paper laminated with HDPE Fabric and has excellent tear resistance. VCI HDPE Laminated with Paper offers a barrier to water, oil and grease. VCI HDPE Laminated with Paper is available in both four-layer and three-layer configurations, each offering varying barrier strengths ranging from 150 GSM to 180 GSM



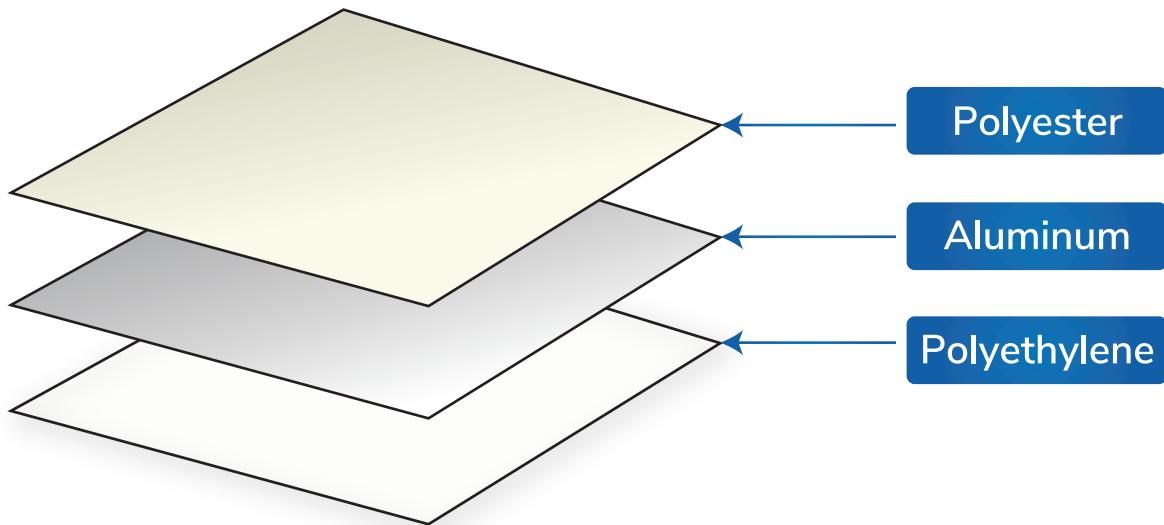
ALUMINUM BARRIER FOIL

Aluminum Barrier Foil comprises of 3 to 4 layers of different materials. These materials bond together with adhesive or extruded polyethylene and derive their properties from a strong construction as outlined in the below diagram.

The aluminum layer is extremely important in laminates. They are used in a wide variety of industries to provide both Dry Product Protection and Corrosion Prevention. Barrier Foil protects the integrity of any application where deterioration of the packaged product may take place due to:



Typical Constructions of Aluminum Barrier Foil:



Benefits of using Barrier Foil:

Eliminate Corrosion

Protects Hydroscopic products from moisture ingress and damage.

Protects Atmospherically sensitive products from the outside environment

Reduce Desiccant Usage and thus overall shipping weight

Cut out preservation methods requiring cleaning

Reduces the need to invest in modified atmosphere storage

Outer packaging cleanliness

Allows for reusable containers

SILICA GEL

Silica gel captures water molecules by the process of adsorption. This is the process, where the atoms of the water molecule adhere to the surface of the silica gel through a bonding process. The adsorption process will go on until the entire surface of the silica gel is coated with a thin film of water molecules.

Silica gel is an amorphous form of silica and is highly porous in nature. Silica gel particles are composed of an interconnecting network of microscopic pores (capillaries) and therefore have a very large surface area. The mechanism of moisture adsorption by silica gel include surface adsorption and capillary condensation in the porous network. Silica gel works well at an ambient temperature but might have decreased adsorption rate and equilibrium moisture content at higher temperatures.

Advantages:

- Non-flammable & Non Toxic.
- Shelf life is up to 24 months –if stored airtight.
- It is inert and will not corrode or disrupt materials.
- Prevents Fungus Growth; Food Grade safe
- No moisture / lumps.
- Maintains Crispiness
- Reused by regenerating–heating the gel will stave off absorptions.
- Can absorb up to 40% of its own weight.decreased adsorption rate and equilibrium moisture content at higher temperatures.



Since Silica Gel is Non -toxic, odorless and non-corrosive; it provides premium large volume of desiccant dryers with lower energy costs. Compared to other desiccants, it has a very stable thermal and chemical characteristics. This choice of desiccant is typically white, orange & blue and referred to as non-indicating type. Once the gel adsorbs the moisture, it will remain unchanged physically.

Available Sizes:

- Transformer Industries Seeds Drying , Flower Drying.
- Desiccant Pouch Manufacturing Industries
- Hearing Aid Industries Aerospace & Aviation Industries
- Electronics Industries, Automobile Industries as Desiccant
- Power Industries

DESICCANTS

Desiccants are commonly used to keep products dry and stable. Dry desiccants can absorb moisture from the air either by physical adsorption or by chemical reaction and thus reduce the humidity in the headspace of the sealed containers. GMD specially designed clay based desiccants protect the critical components from moisture absorbent damage and further issues related to the same.



Dual layer design



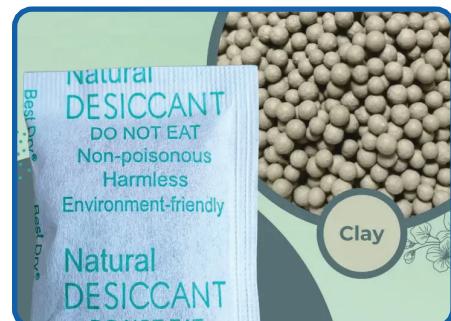
One-way venting packing materials

Bentonite Clay Beads & Granules:

- It is effective even in extreme temperatures against relatively humid environments.
- In the event that a packaged item exceeds 120 degrees Fahrenheit, there is the potential for the clay's capacity to absorb the moisture in the air to deteriorate.
- The Clay Desiccant is used for controlling the moisture and the humidity, as well as for removing or inhibiting the mould, mildew, corrosion and odour.
- The most ideal use of the clay based desiccant is carried out inside the storage and shipping containers, where there are more chances of moisture and humidity effects on the products being stored for a long time.
- The clay is made with grey coloured small pellets.
- The adsorption capacity of clay is significantly smooth at low humidity level and enhances when relative humidity (RH) increases.
- This clay is available in different types of packaging such as packets, bags or pouches made with Non-woven Fabric, cotton cloth and polyester cloth. It can be regenerated easily and also does not swell as a result of adsorbing water vapour or moisture or humidity.

Advantages

- Natural and eco-friendly
- High absorption capacity
- Safe for food and pharmaceuticals
- Easy to use



HDPE / PP WOVEN FABRIC

Fabric in woven packaging is as important as bricks and cement in the construction of buildings. Without fabric, woven packaging would be the next impossible thing on earth unless we get some other viable alternative. There are many important things that matter in the production of Fabric. Our years of experience help us manufacture the best quality fabric with the help of various techniques such as customized recipes, unique product codes and so on. Apart from that the denier, color, thickness, and the mesh are very much important in it.

Manufacturing Process

In the manufacturing process, our looms play an important part. A tubular or flat fabric is made by weaving the PP/HDPE tapes. During the process, the tension of warped tapes is regulated by the load cell. There is an in-feed system which controls the speed of the inlet rollers during weaving as per set tension. Also, the fabric roll winder equipped with a load cell ensures that the winding tension of fabric remains uniform throughout the process. This is how we get our final product which is PP Woven Fabric.

Material Combination

The real material used to make the fabric is PP/HDPE granules. With granules, the tapes are made and these tapes after getting weaved forms the fabric. The advance machinery in our plant ensures that our customers get the top quality fabric in their bags. Since all this process is based on the calculations and



TARPAULINS

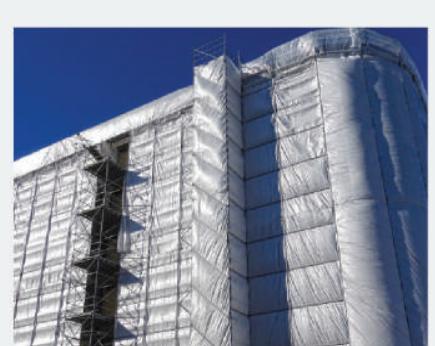
GMD High Strength Multi-layered flexible dust proof and waterproof, yet light weight, Tarpaulins are designed to protect the materials from wind, air and Sunlight. It is manufactured by sandwich lamination process using virgin grade high-density polyethylene (HDPE) and Low Density Polyethylene (LDPE), which yields multi-layered sheets. Tarpaulins are then fabricated by a specialized heat-sealing process to develop High Strength Multi-layered Specially designed tarpaulin. Our tarpaulin offers superior resistance to UV rays, extreme weather conditions and wear and tear. Our offered tarpaulins are having longer life than the traditional tarpaulins. These offered ranges of tarpaulins are hugely admired by our elite customers for their unique features like shrink resistance, waterproof, high quality, lightweight etc and along with other qualities like 100% leak-proof, oil proof and weatherproof.



Agriculture Hdpe Tarpaulin



Cement Godown Tarpaulin Cover



Construction Sites Tarpaulin Cover



Grass Land Tarpaulin Cover



Railway Wagon Tarpaulin Cover

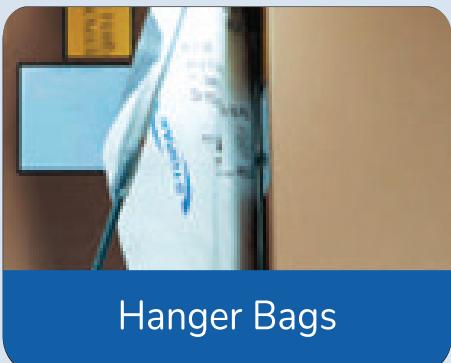


Truck Tarpaulin Cover

DUNNAGE AIR BAG

PRODUCT DESCRIPTION

- The purpose of a dunnage air bag is to secure the cargo and create a bulk head during transit.
- The dunnage air bag is used to prevent the cargo from collapsing due to its shaking inside the vehicle vertically or horizontally during the transportation of ships, railways and trucks.
- The dunnage bags will be fitted into the gaps or void between the cargos and then carefully filled with compressed air.
- Our dunnage air bags are made of different materials which can protect goods from various industries and in different environments, safe and reliable.



Hanger Bags



Square Bags



Double Sided Tape Bags



Customized Length Bags



Valve on Edge Bags



Mid-placed Valve

KRAFT PAPER DUNNAGE AIR BAG / PAPER DUNNAGE AIR BAG

Constructed of multiple layers of high-strength Kraft paper and an inner plastic lining that protects against loss of air pressure.

Features:

- ⌚ Acts as shock absorbers
- ⌚ The paper used to manufacture these bags is food grade so used in pharmaceutical & food industries.
- ⌚ Puncture resistant & Best quality material.
- ⌚ The strength of our paper bag is higher as it is HDPE laminated Kraft paper.
- ⌚ Leak proof & tested.

PP DUNNAGE AIR BAG

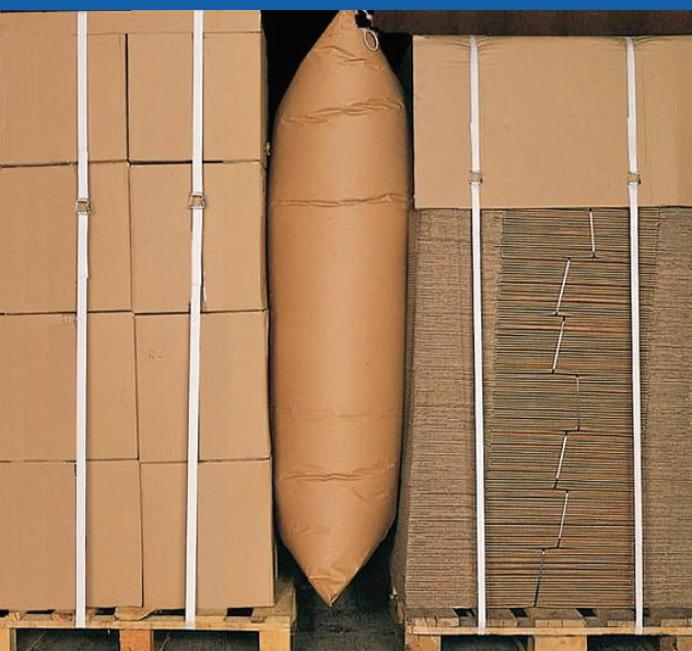
Features:

- ⌚ Manufactured with high density laminated PP woven fabric.
- ⌚ Virgin quality material.
- ⌚ The valve which we are using for these bags is specially designed and manufactured by Krishca.
- ⌚ Leak proof & tested & Resistant to water.
- ⌚ Puncture resistant quality material used.
- ⌚ High quality material & Reusable.

APPLICATIONS:

Dunnage bags adapt to different shapes of pallet loads.

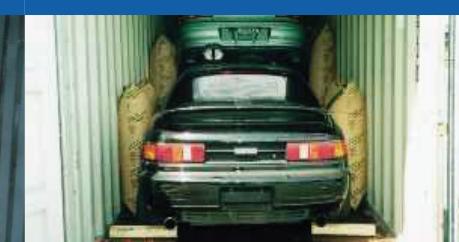
Dunnage bags adapt to different shapes of pallet loads.



Dunnage bags prevent damages by blocking goods inside a load carrier.



Dunnage bags can even be used with stacked transport sets.



MATERIAL DESCRIPTION

Dunnage Bags Basics:

The basic construction of any dunnage bag is the combination of two major parts. The IN-LINER (also called bladder or balloon), which actually holds the compressed air tight at high pressure levels. The OUT-LINER (the cover) gives the shape, the stability and the enormous strength to the dunnage air bag. The strength of a Kraft paper air bag depends on the OUT-LINER's material thickness and number of layers.

Material:

All our dunnage bags IN-LINER are made of a special extruded poly-ethylene (PE-mixture) with the guarantee of a perfect tightness even under high pressure. For the OUT-LINER we use layers of special extensible Kraft paper or PP (Polypropylene) Woven Fabric with a very high Tensile strength to match with all applications.

Valve System:

The Krishca valve allows to fill up air bags much faster with our specially designed air filling devices. The 'Venturi' effect saves up to 50 % of inflation time. However, our Valve is compatible with most of the air filling devices that are being used by the industries.

PRODUCT ADVANTAGES

- ⌚ Effectively prevent the cargo from collapsing and moving during transportation.
- ⌚ Easy to operate, improve work efficiency, significantly reduces logistics costs, etc.
- ⌚ Shorten the time required to secure goods.
- ⌚ Withstand weight over 9.5T.
- ⌚ Comply with RoHS environmental protection requirements.
- ⌚ Can be used in any damp conditions & Quick inflation for use.

FEATURES

- ⌚ These bags acts as shock absorbers in load shifting.
- ⌚ Designed to secure cargo of different industries such as pharmaceuticals, chemicals, automobile & food industries & every exporters.
- ⌚ It can sustain a load up to 9.5 MT & Its very easy to inflate & deflate.
- ⌚ We provide the highest quality Paper and Woven Dunnage Bags reducing damage to your cargo.
- ⌚ It acts as cushion in between two pallets.
- ⌚ It can sustain air up to more than 3 Months.
- ⌚ Manufactured in different sizes such as 900 x 1200 mm, 900 x 1500 mm, 900 x 1800 mm, 900 x 2100 mm, 1200 x 1800 mm, 1200 x 2100 mm & 1200 x 2400 mm, we also manufacture bags as per customer requirements.



**GMD
ENTERPRISE**



Committed to Value. Committed to You

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