



DriGuard® Environmental Containers

Mission-Grade Protection for
High-Value Assets



Protecting turbine engines, generators, and
other mechanical systems from corrosion,
contaminants, and climate extremes during
storage and global shipment.

ENCLOSURE CONTAINS NITROGEN
ATMOSPHERE DO NOT ENTER UNLESS PROPERLY
VENTILATED

WARD END

BUILT FOR TOUGH CONDITIONS

DriGuard® is an advanced protective barrier solution designed to shield critical equipment across aerospace, defense, and energy sectors. Built with Siemens-approved multi-ply laminated vinyl, DriGuard containers are engineered for extreme environments—from sea transit to long-term desert storage.

Engineered for:

- Overseas shipment (sea freight)
- Harsh environments (humidity, salt air, temperature swings)
- Long-duration storage (indoor/outdoor)
- Equipment staging and preservation in transit depots

“Corrosion doesn’t wait. Neither should your protection strategy.”

Barrier materials can be selected to protect equipment under a broad range of environmental conditions, such as low-temperature operation, chemical resistance, and long-term protection in high temperature and high humidity. The physical properties of the two standard materials for DRIGUARD containers are listed below.

PRODUCT ADVANTAGES

Advanced Multi-Layer Material

Developed to Siemens M-Spec 44731DA-DD, DriGuard is made of a three-ply vinyl-laminated barrier with a high-tensile polyamide scrim core and calendared PVC film. This offers:

- Superior tensile and tear strength
- Minimal moisture vapor transmission rate
- Resistance to UV, temperature extremes, and abrasion

Custom-Fit Design

Each container is designed to your specs and needs—whether for a turbine, rotor, or mechanical subassembly:

- Zipper or welded closures
- Pressure access ports
- Viewing windows or tag pouches
- Logo or identification printing available
- Hanger loop tabs
- Double layered, reinforced floor

Sealed for Confidence

- RF-welded seams and pressure management options (air or nitrogen) create a microclimate that:
 - Prevents corrosion from humidity
 - Reduces oxidation
 - Maintains cleanliness and readiness

OPTIONAL COMPONENTS

Special additional features available with DRIGUARD Environmental Containers:

Humidity Indicators – provide visual monitoring of internal relative humidity

Air Valves – allow container testing, evacuation, and pressurization with inert gas

Inspection Windows – clear plastic material allows visual inspection of equipment in a sealed container

Desiccant Pouches – hold bagged desiccant inside the container

External Pouches – hold shipping papers, zipper sliders, repair kits

Doubler Pads – add strength and abrasion resistance to areas of the container as required

Security Flaps – protect zipper area, held down by hook & loop fasteners

Relief Valves – relieve pressure during air shipment

Access Zipper – allow easy replacement of desiccant

Stenciled Markings – provide information and instructions as required

TRUSTED ACROSS INDUSTRIES

Power Generation

Siemens Energy and Siemens Engineering have used our DriGuard system to protect turbine rotors and generators during overseas freight and field staging for over 10 years.

Aerospace & Defense

Ideal for export-controlled systems such as engines, missiles, and support equipment requiring integrity throughout their lifecycle.

Industrial Equipment

DriGuard offers turnkey protection for mechanical assemblies, test rigs, and precision gearboxes, whether awaiting installation or stored in inventory.

Maintaining spare jet engines in flexible DRIGUARD containers allowed the Air Force to replace metal cans and offer environmental protection at a fraction of the cost, weight, and bulk. DRIGUARD containers successfully preserved nuclear reactor components during ocean shipment and storage in a salt air environment.

TECHNICAL SPECIFICATIONS

Property	DriGuard 44731DA Standard
Weight	28 oz/yd ² (950 g/m ²)
Material	3-ply: nylon scrim + PVC film
Moisture Vapor Transmission	0.1 g/100 in ² / 24h
Tensile Strength	270–290 lbf/inch
Tear Strength	145 lbf x 145 lbf
Temperature Range	-40°F to +160°F
Conforms To	MIL-C-9959, Grade C (w/ exceptions)

WHY DRIGUARD®

- High-Integrity Construction
- Military & Industrial Heritage
- Custom Fit and Functional Add-Ons
- Long-Term Cost Efficiency
- In-House Manufacturing by Vinyl Technology, USA

DRIGUARD materials have high resistance to aging, blocking, vibration, delamination, rupture, tearing, flame, sunlight and impact, and to hydraulic fluids, lubrication oils, preservatives, and similar compounds.

DRIGUARD materials retain their qualities at freezing temperatures and at temperatures through 140°F and higher. All DRIGUARD containers have an unconditional one-year warranty against defects in materials and workmanship.

Why Vinyl Technology?

With over four decades of experience, Vinyl Technology is a trusted industry leader in the design and manufacturing of military-grade personal flight equipment. As an approved Qualified Producers List (QPL) supplier, we provide certified, mission-critical protective gear that meets the highest military and aerospace standards.



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