

The unique and patented Hexa-Cover® Floating Cover is perfect on almost any form of fluid surface.

Hexa-Cover® Floating Cover is the ideal solution for controlling such things as:

- Odor
- Emission
- Heat loss
- UV effect
- Evaporation
- Organic growth

Further, the Hexa-Cover® Floating Cover deters unwanted waterfowls from landing on covered waters.

Since its launch in 2004, Hexa-Cover® Floating Cover has been chosen for a vast number of installations globally, making the Hexa-Cover® Floating Cover the market leading solution.

Today Hexa-Cover® Floating Cover is used on almost all forms of basins, lagoons, reservoirs, containers, ponds and tanks.

Tested by DLG, Testzentrum, Germany



The applications are many and includes:

Water:

Wastewater  
Raw - / drinking water  
Cooling- and processwater  
Recovery water  
Irrigation water  
Tailings Ponds  
ILS, PLS, Refino

Industry:

Leachate  
Decoction  
Chemicals

Oil & Gas:

Spill-over tanks  
Emergency tanks  
Frac Water tanks  
Boil Feed Water

Agriculture:

Storage tanks at i.e. Biogas Plants  
Manure and slurry tanks, lagoons etc.



Hexa-Cover® Floating Cover ensures;

- Up to 99% coverage of the surface area
- Up to 95% reduction of evaporation
- Up to 96% reduction of emission
- Up to 96% reduction of odor
- Noticeable reduction in organic growth
- Noticeable reduction in heat loss



Hexa-Cover® Floating Cover is manufactured of recycled Polypropylene, without use of Freon or other harmful materials.

Hexa-Cover® Floating Cover is solid and robust and as such offers a long lifespan free of maintenance, service and repair.

Hexa-Cover® Floating Cover - Features & Benefits:

- Ease of installation
- Installation in both full and empty tank
- Automatic distribution on the fluid surface
- Automatic adaption to changes in the level
- Fits to all shapes and geometries
- Easy adaption to changes in surface area
- Unlimited access to the liquid
- No running cost
- No repair cost
- No maintenance cost
- Needs no supervision
- Unaffected by rain, snow and frost
- Allows use of aeration
- Favourable price
- 10 years warranty
- 25 years expected lifetime



Hexa-Cover® Floating Cover, in two sizes:

Hexa-Cover® Floating Cover R90

Diagonal measure	180 mm
Height	60 mm
Weight	120 g
Weight per m2	5,15 kg
Pcs per m2	43
Big Bag	1,3 x 1,3 x 2,5 m
Surface area	52 m2
Weight	270 kg



Hexa-Cover® Floating Cover R114

Diagonal measure	228 mm
Height	70 mm
Weight	243 g
Weight per m2	6,80 kg
Pcs per m2	28
Big Bag	1,3 x 1,3 x 2,5 m
Surface area	42 m2
Weight	285 kg





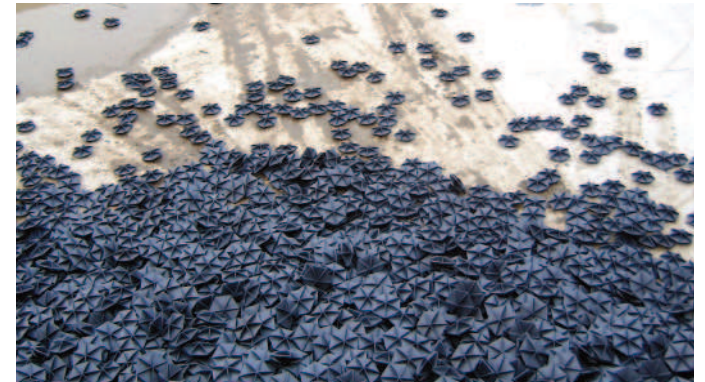
Hexa-Cover® Floating Cover  
Big Bag delivery and installation:



Hexa-Cover® Floating Cover  
Big Bag delivery and installation:



Hexa-Cover® Floating Cover  
Also installation in empty tank (max 5m drop)



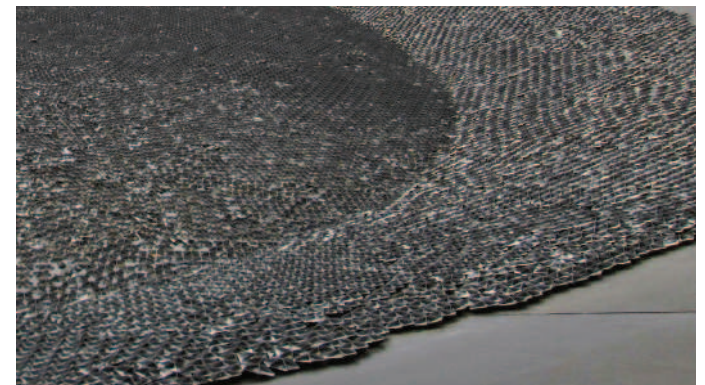
Hexa-Cover® Floating Cover  
BULK delivery and installation:



Hexa-Cover® Floating Cover  
BULK delivery and installation:



Hexa-Cover® Floating Cover  
Automatic adaption to changes in the level



Effective coverage for all fluids



## **THE UNIQUE FLOATING COVER SYSTEM**

### **APPLICATIONS**

- OIL & GAS







# OIL & GAS PRODUCT INFORMATION

## Hexa-Cover® Oil & Gas Duty is perfect on almost any type of Oil & Gas tank

Hexa-Cover® Oil & Gas Duty are designed as hexagonal shapes with symmetric ribs on both sides. The ribs allow for the floating structures to distribute naturally and uniformly on the liquid surface without overlapping to form an interconnecting blanket barrier at the surface of the heavy oil, impeding odors and vapors. A low density ensures that the Hexa-Cover® will float above the surface of the heavy oil liquid. A special Helical scalloped edge allows the Hexa-Cover® to interlock and form an integrated matrix.

### Designed to:

- Reduce tank vent emissions such as BTEX Benzene, Toluene, Ethylbenzene and Xylene.
- Lower tank head space vapor load burdens on existing VRU systems to eliminate the need to add extra equipment capacity.
- Eliminate or reduce water vapour that act as a carrier of VOCs that add to odor problems.
  - Reduce heat loss resulting in lower operating costs.
- Insulation for liquid surface in a heated crude oil tank lowers operating costs for CHOPS facilities and central processing batteries.
  - Reduce offensive and carcinogenic BTEX odors.
- Reduce tank head space corrosion by lower levels of humidity above the liquid level.
  - Reduce or possibly eliminate expensive defoaming chemicals.
  - Reduce energy needed to reach optimum process temperatures.
    - Reduce the amount of water vapor generated as steam.

### Design

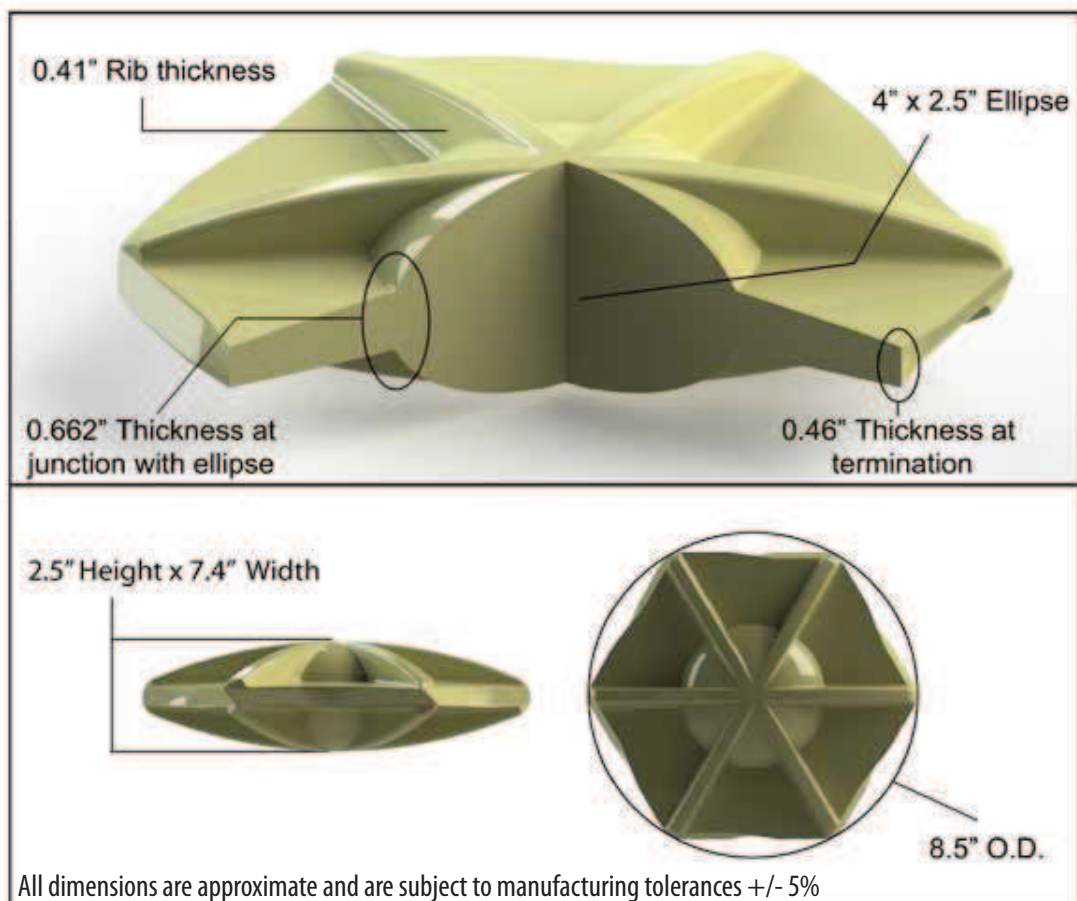
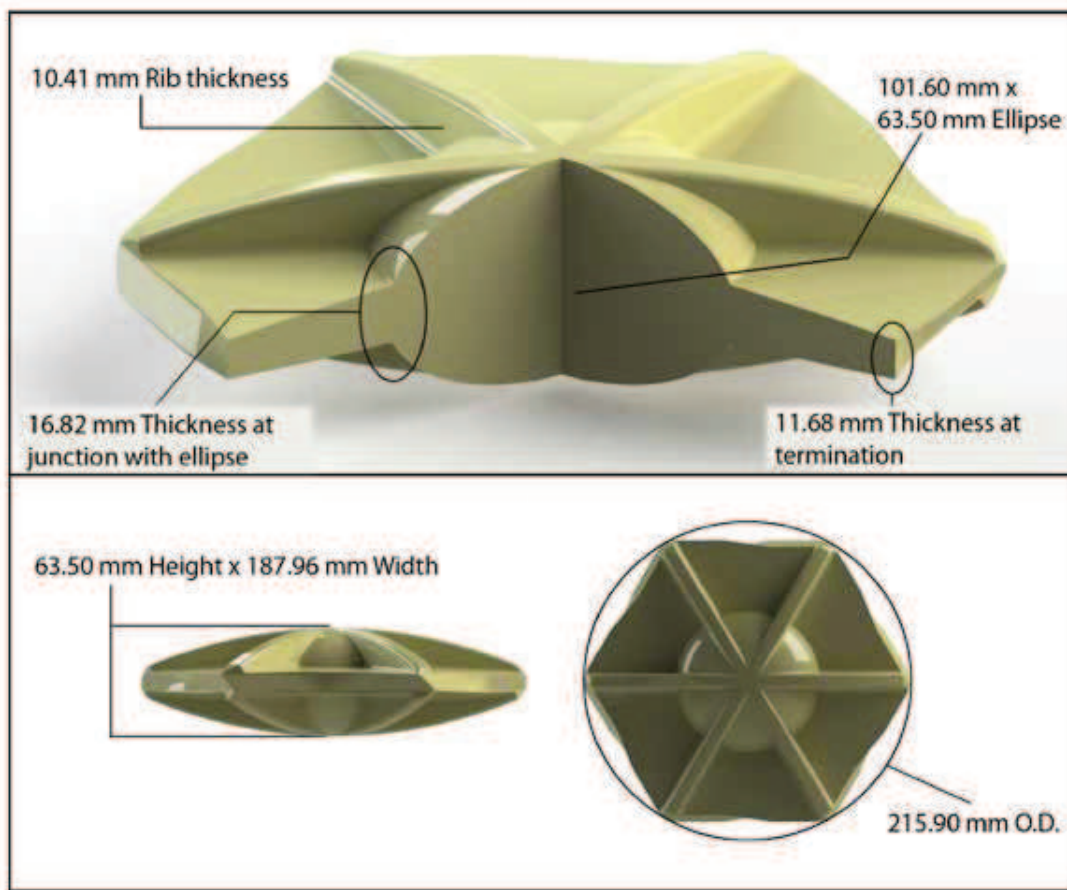
- Chemically compatible with Conventional and Heavy Oil components up to temperatures of 100 °C including Thermal Produced Oil and SAGD Diluted Bitumen and Diluents
  - Resistant to weight gain.
- Polymer is classified as static dissipative with a surface resistivity value of  $3.7 \times 10^9 \Omega \text{ sq}''$  ASTM Test Method D257
- Resistant to thermal shock. Tested at -40 °C to +100 °C for sudden rapid temperature.
  - Can be installed while existing tanks are in operation.

### Oil & Gas Applications for Hexa-Cover® Products

- Hydrocarbon contaminated wastewater basins
- Conventional Crude Oil and emulsion storage
  - Frac Oil and Frac water storage
  - Gasoline, Diesel and Other Refined Products
- Thermal Heavy Oil
- SAGD Dilbut Sales Tanks
- Sour Sand Slurry Tanks
- Process Water Ponds
  - Purified Tailings Ponds
  - Frac Water Tanks
  - API Separator
  - Boil Feed Water



## Extreme Duty and Extreme Duty UV





# OIL & GAS SPECIFICATIONS

## Hexa-Cover® Oil & Gas Extreme Duty

- Continuous temperatures up to 100°C
- Diagonal measure: 21.59 cm +/- .32 cm
- Parallel side measure: 18.79 cm +/- .32 cm
- Height: 6.35 cm +/- .127 cm
- Weight: 260g +/- 5 g
- Density: 0.360 g/cc +/- 2%
- Plate thickness at ellipsoid edge 1.68cm
- Plate thickness at outer perimeter 1.17 cm +/- .127cm

## Hexa-Cover® Oil & Gas Heavy Duty

- Continuous temperatures up to 60°C
- Diagonal measure: 21.59 cm +/- .32 cm
- Parallel side measure: 18.79 cm +/- .32 cm
- Height: 6.35 cm +/- .127 cm
- Weight: 285g +/- 5 g
- Density: 0.40 g/cc +/- 2%
- Plate thickness at ellipsoid edge 1.68cm
- Plate thickness at outer perimeter 1.17 cm +/- .127cm
- Indoor or UV rated versions available

## API Hexa-Cover®

- Hydrocarbon contaminated water duty
- Diagonal measure: 21.59 cm +/- .32 cm
- Parallel side measure: 18.79 cm +/- .32 cm
- Height: 6.858 cm +/- .127 cm
- Weight: 360g +/- 18 g
- Density: 0.45 g/cc +/- 2%
- Ellipsoid 10.16 cm x 6.858 cm
- Plate thickness at ellipsoid edge 1.854cm
- Plate thickness at outer perimeter 1.194 cm +/- .127cm
- Rib thickness 1.04 cm

Hexa-Covers® Oil & Gas

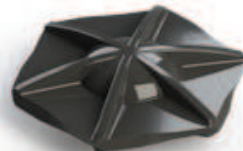
# HEXA-COVER®

Oil & Gas Duty Family of Products made with DuPont™ Zytel®

**60°C Continuous Hydrocarbon  
Heavy Duty**



Internal Tank 0.40 g/cc

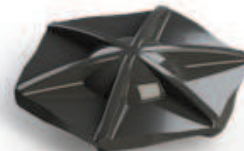


Outdoor UV 0.40 g/cc

**100°C Continuous Hydrocarbon  
Extreme Duty**



Internal Tank 0.36 g/cc



Outdoor UV 0.36 g/cc

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All density measurements are +/- 2%

Hexa-Covers® Oil & Gas

# HEXA-COVER®

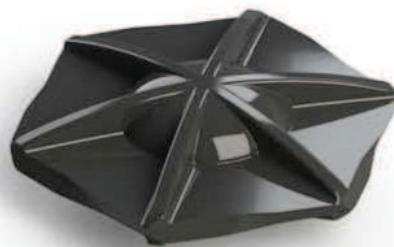
Family of Products Made with Polypropylene

0.55 g/cc



R114

0.45 g/cc

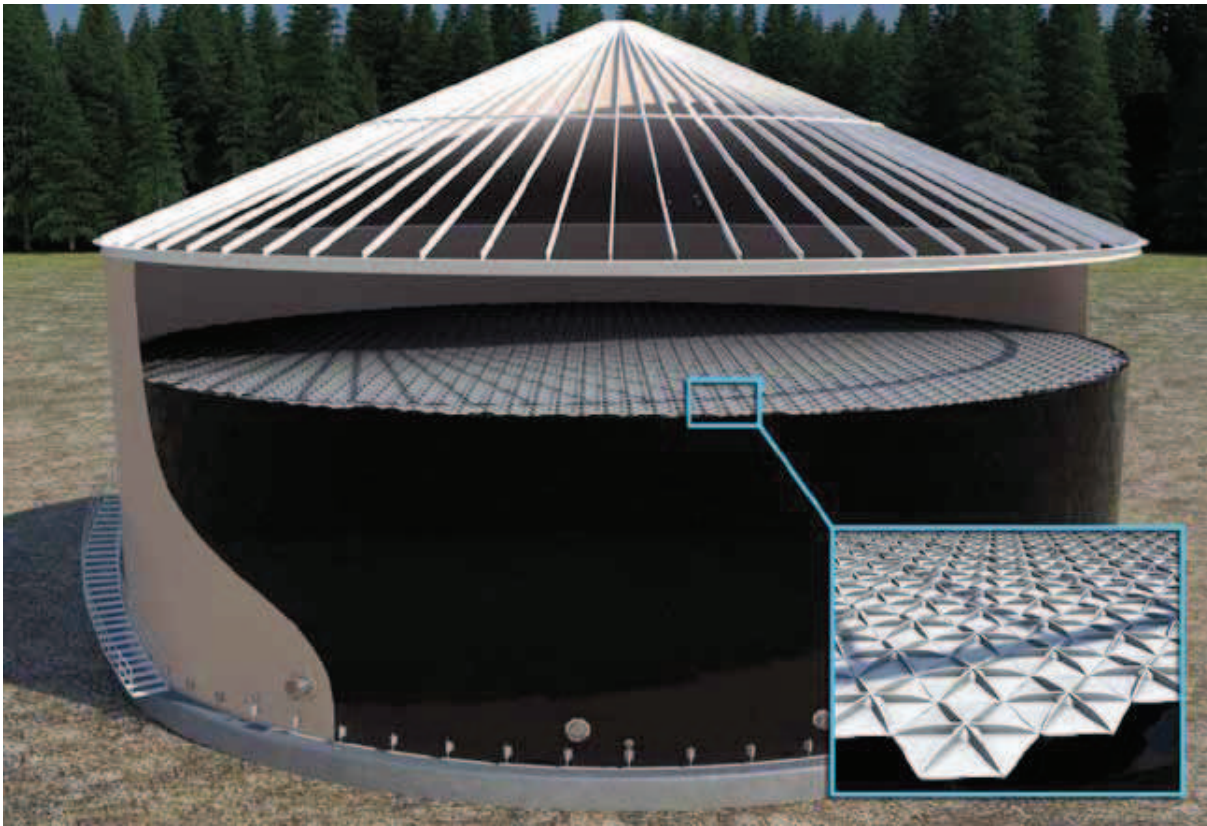


API Low Density

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HEXA-COVERS® CAN BE EASILY INSTALLED INTO AN EXISTING FIXED ROOF TANKS THROUGH A 200mm OPENING



INSTALLATIONS OF OIL & GAS HEXA-COVERS® IN WESTERN CANADA TO REDUCE BTEX EMISSIONS

