



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

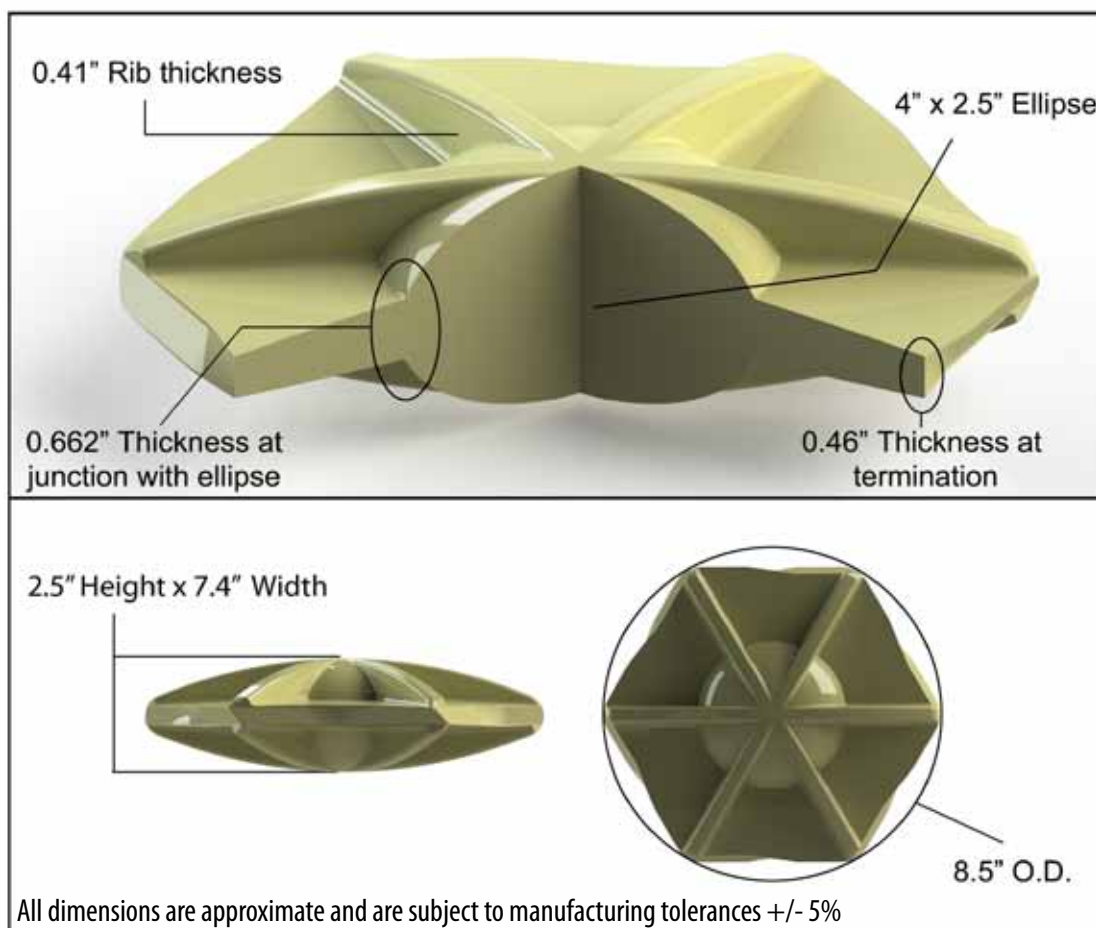
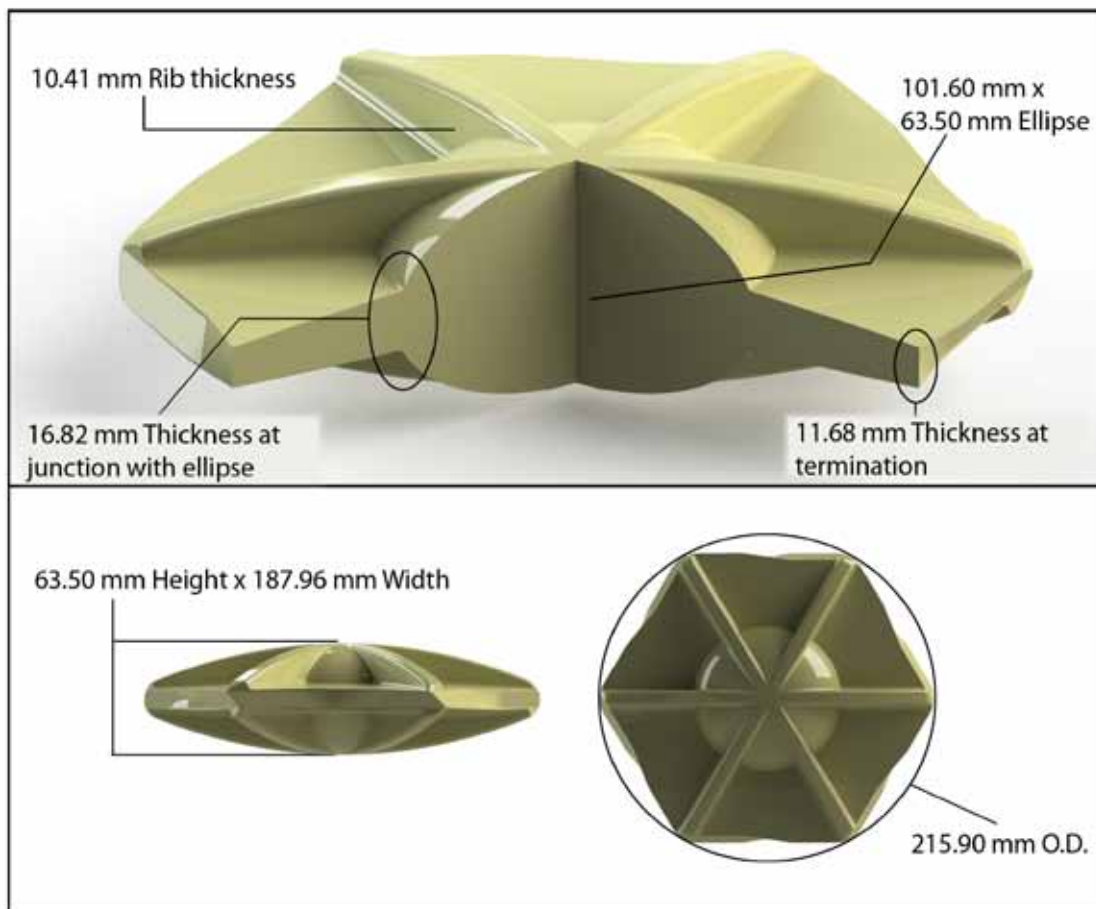
- Chemically compatible with Conventional and Heavy Oil components up to temperatures of 100 °C including Thermal Produced Oil and SAGD Diluted Bitumen and Diluents
 - Resistant to weight gain.
- Polymer is classified as static dissipative with a surface resistivity value of $3.7 \times 10^{10} \Omega \text{ sq}''$ 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

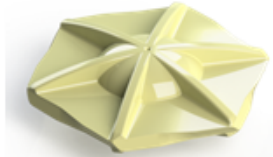
API Hexa-Cover®

- 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-COVER®

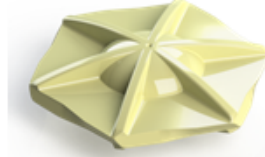
Oil & Gas Duty Family of Products made with DuPont™ Zytel®

60°C Continuous Hydrocarbon
Heavy Duty

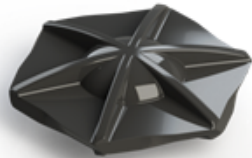


Internal Tank 0.40 g/cc

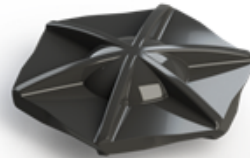
100°C Continuous Hydrocarbon
Extreme Duty



Internal Tank 0.36 g/cc



Outdoor UV 0.40 g/cc



Outdoor UV 0.36 g/cc

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All density measurements are +/- 2%

HEXA-COVER®

Family of Products Made with Polypropylene

0.55 g/cc



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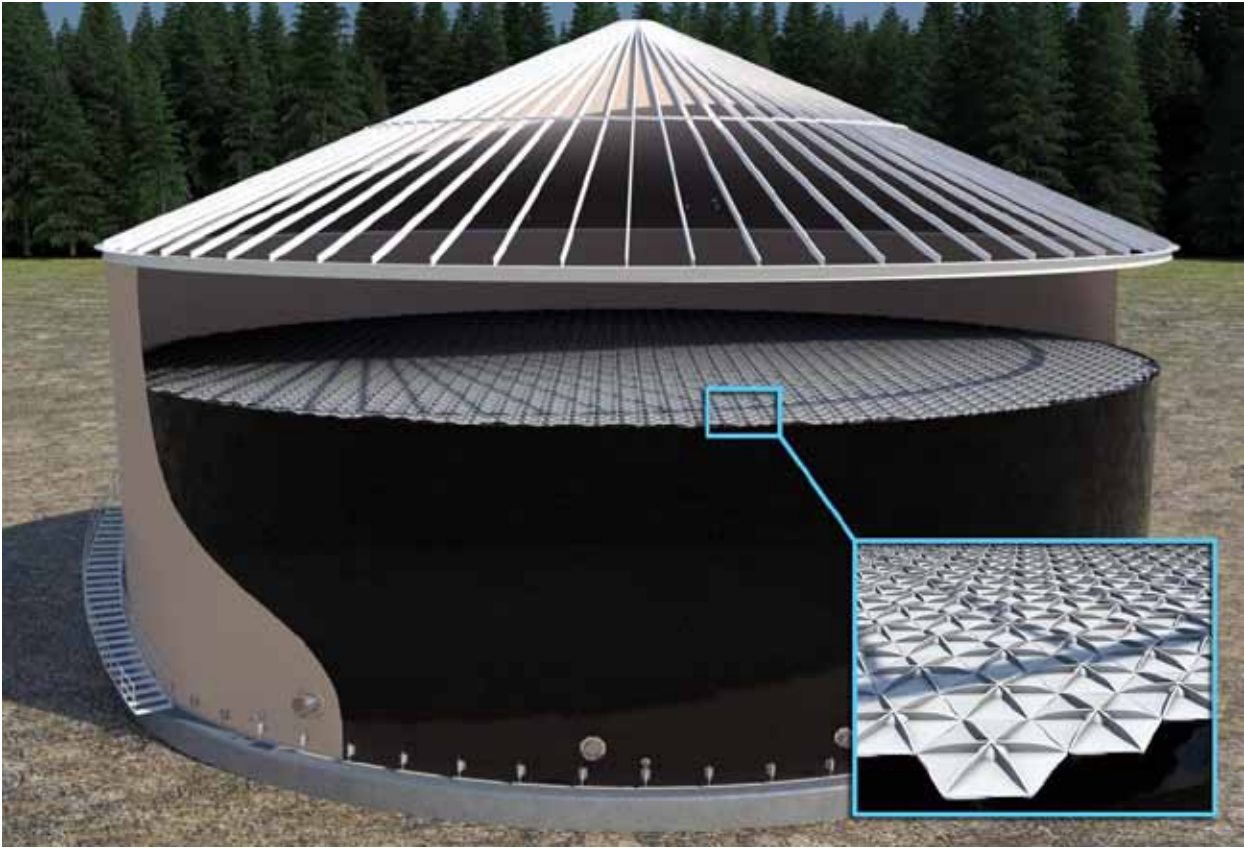
0.45 g/cc



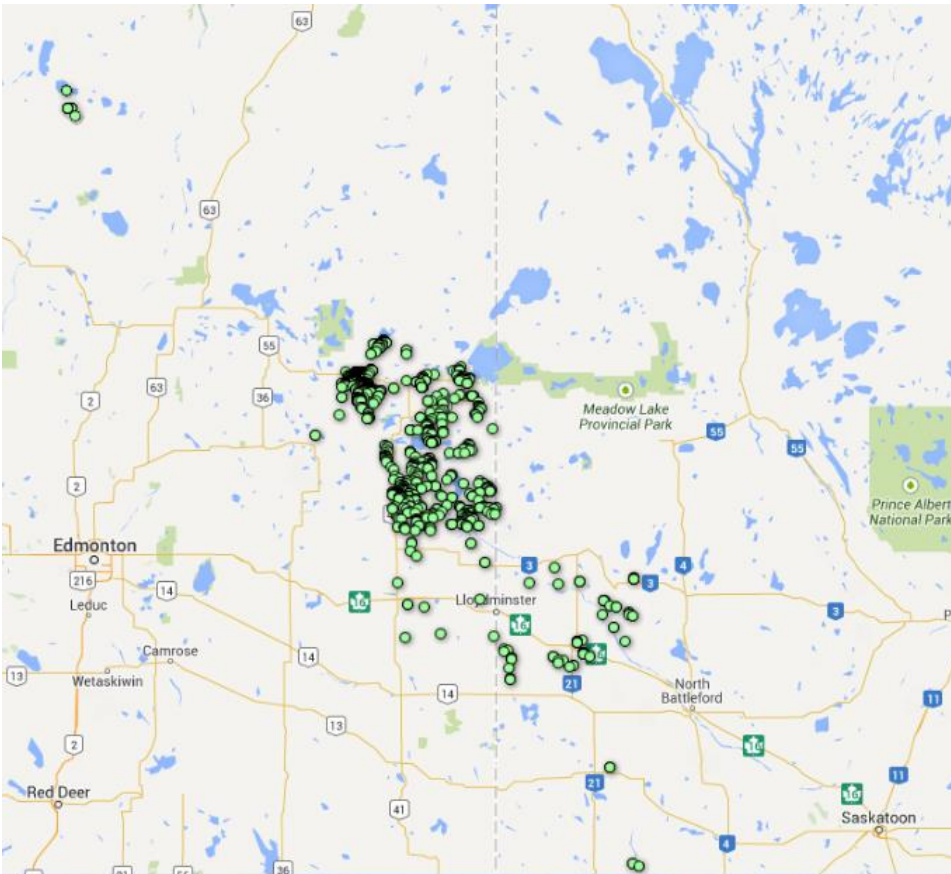
API Low Density

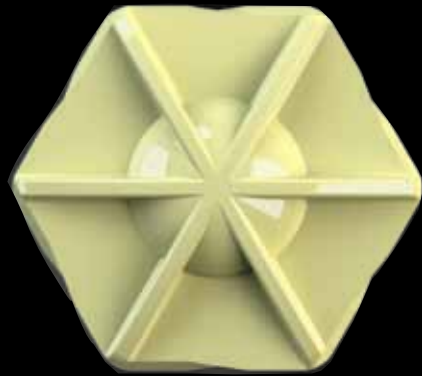
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HEXA-COVERS® CAN BE EASILY INSTALLED INTO AN EXISTING FIXED ROOF TANKS THROUGH A 200mm OPENING



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





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