DIRECTANK

VAPOR SHIELD
Secondary Metallic Wiper Seal
For internal floating roof tanks

Secondary metallic wiper seal solution designed to provide flexible, durable vapour control for internal floating roof tanks, supporting long service life, chemical compatibility, and reliable sealing performance.

Overview

The **VAPOR SHIELD Secondary Metallic Wiper Seal** is a durable secondary sealing solution for internal floating roof tanks, designed to provide reliable vapour control across a wide range of operating conditions.

The system combines high-strength stainless steel support plates with a flexible elastomeric wiper tip to maintain a tight seal against the tank shell. Its overlapping plate design provides the flexibility required to accommodate shell irregularities while maintaining effective contact throughout the working range.

Designed for use with steel, aluminium, and composite internal floating roofs, VAPOR SHIELD supports long-term sealing performance in applications where chemical compatibility, durability, and emissions control are critical.

Design & Construction

The VAPOR SHIELD design incorporates high-strength, semi-hardened stainless steel support plates arranged to provide flexibility, durability, and reliable shell conformity.

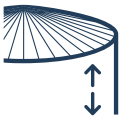
Key design features include:

- Overlapping stainless steel support plates for shell deformation conformity
- Flexible elastomeric wiper tip for consistent tank shell contact
- High-durability fabric wrap for abrasion resistance
- All-bolted construction for safe installation
- No hot work required
- Suitable for in-service installation where appropriate
- Compatible with steel, aluminium, and composite internal floating roofs

Key Benefits

Reliable secondary vapour control

Maintains a tight secondary seal to help reduce vapour emissions from internal floating roof tanks.



Maintains shell contact

Overlapping stainless steel support plates allow flexibility across shell irregularities while maintaining consistent sealing contact.

Durable wiper performance

A fabric-wrapped elastomeric wiper tip provides abrasion resistance and supports long service life.

Chemical compatibility

Designed for compatibility with commonly stored products, including demanding petrochemical and chemical services.

In-service installation capability

Can be installed in-service where site conditions and procedures allow, helping reduce operational disruption.

Safe, bolted installation

All-bolted connections support simple, safe installation without gasketed connections or hot work.

Key Features

- **High-strength, semi-hardened stainless steel support plates**
- **Overlapping plate design for shell conformity**
- **Flexible elastomeric wiper tip**
- **High-durability fabric wrap for abrasion resistance**
- **All-bolted construction with no hot work required**
- **Suitable for in-service installation where appropriate**
- **Compatible with steel, aluminium, and composite internal floating roofs**

Applications

VAPOR SHIELD Secondary Metallic Wiper Seals are suitable for internal floating roof tank applications including:

- Petrochemical storage
- Fuel and hydrocarbon storage
- Chemical storage applications
- Internal floating roof tanks using steel, aluminium, or composite roof systems
- Applications requiring secondary vapour control and chemical compatibility

Compliance & Standards

VAPOR SHIELD secondary metallic wiper seals are designed to support vapour emissions control and regulatory compliance in internal floating roof tank applications.

Materials are selected for durability, chemical compatibility, and traceability, supporting reliable long-term operation in demanding storage environments.

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About DirecTank

DirecTank Environmental Products supplies advanced sealing systems and emission control solutions for aboveground storage tanks. Backed by decades of industry expertise, DirecTank delivers reliable engineering solutions designed to improve environmental performance, operational safety, and long-term asset reliability.