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DEF STORAGE TANKS

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Sierra Sales' DEF Tanks

DIESEL EXHAUST FLUID (CH₄N₂O) BULK STORAGE TANKS SPECIFICATION

Stationary Tanks:

- 22 to 16,500 Gallons
- HDLPE, 1.35, 1.5 or 1.9 SG rating (ASTM D-1998 - 600 psi hoop stress design) – complies with ISO 22241-3 section 4.1.2

Full Drain Option:

SUMO™ (Snyder Unitized Molded Outlet):

- Available on single wall vertical tanks 2,000 to 12,500 gallons
- Encapsulated 316SS threaded ring with 316SS adapter



SUMO® Full Drain

Double Wall Tanks:

CAPTOR™ Containment Systems (CCS) – 15 to 10,000 gallons

- Primary Tank
 - HDLPE, 1.5 or 1.9 SG rating (ASTM D-1998 - 600 psi hoop stress design) – complies with ISO 22241-3 section 4.1.2
- Secondary Containment Tank
 - HDLPE, 1.5 SG, Natural color – complies with ISO 22241-3 section 4.1.2
 - Provides 115%-120% containment of primary tank capacity

Intermediate Bulk Containers:

- 120-550 Gallons
- HDPE & Stainless Steel construction
- Wide variety of designs and options
- UN/DOT approved



Fittings:

Material of Construction:

- Fitting: 316SS
- Gasket: EPDM or Viton®
- Bolt: 316SS



Heat Tracing and Insulation:

DEF can start freezing at 12 deg. F depending on concentration. To prevent freezing or crystallization the contents in the tank may require a heat maintenance system. Heat Tracing and Insulation is available for both single and double wall vertical Snyder polyethylene tanks.



Flexmaster

Flexmaster Flexible Connector:

Required use of flexible connections with fittings

- Allows for 4% lateral and vertical expansion and contraction of the tank
- Reduces pump and piping vibration stress on the tank, fittings, and gaskets

Venting:

Tanks are designed for use at atmospheric pressure. Pressure or vacuum situation can cause excessive deformation or damage to the tanks and void warranty. Venting equipment should be sized to limit pressure or vacuum in the tank to a maximum of ½" water column (0.018 PSI). If the tank will be pneumatically filled (through tanker discharge) additional pressure relief may be required.

Foundation and Restraints:

Tanks should be positioned on a smooth concrete or asphalt pad providing adequate support. The pad should be clean, smooth and level so it fully supports the entire tank bottom with no deflection. Seismic and wind restraint systems are available for both single and double wall vertical Snyder polyethylene tanks.

Temperature:

Tanks are rated up to 100° F, however, DEF can lose its potency if stored for prolonged periods over 86° F.