



POLYETHYLENE LIQUID STORAGE TANKS MGS 93-02E

1.0 DESCRIPTION. These specifications cover the requirements for polyethylene liquid storage tanks.

2.0 MATERIALS.

2.1 The tank shall be a standard 1.9 specific gravity, seamless, vertical cylindrical, flat bottomed, dome topped with a minimum 24 inch vented manway and a 4 inch PVC U-type vent pipe installed.

2.2 The tank shall have molded-in lift lugs.

2.3 The tank shall have molded-in UBC 110 mile per hour tie downs or restraint system. Any surface of the tank that comes into contact with metal cable or other portions of the restraint assembly must have protective sleeves designed to prevent additional wear on the tank.

2.4 The tank shall be translucent white in color.

2.5 The tank shall have one 3-inch diameter PVC outlet with flanged fittings with female threads, and bolt heads encapsulated in Type II polyethylene material. The outlet shall be located approximately 7 to 9 inches from the bottom of the tank.

2.6 The tank shall have one 3-inch diameter top fill PVC inlet, with double flanged fitting and female threads; bolt heads encapsulated in Type II polyethylene material, and a provided male threaded cap.

2.7 All gaskets shall be Viton. Neoprene will not be allowed.

2.8 Molding powder used to manufacture the tank shall be ASTM D-1998-06 high-density linear polyethylene with a density between 0.942 and 0.948 g/cc, containing 0.25 to 0.50 percent UV stabilizer. The molding powder shall not contain any fillers.

2.9 The sidewall of the tank shall be marked in a durable, weather resistant manner in 1000-gallon increments, preferably molded-in markings.

2.10 The finished surface of the tank shall be as free as commercially practical from visual defects such as foreign inclusions, air bubbles, pin holes, and craters. All cut edges shall be trimmed to have smooth edges. The tanks shall exhibit good workmanship in all respects.

2.11 All bolts and nuts shall be stainless steel.

3.0 WARRANTY. The tank shall be warranted for three years in regards to defects in material and workmanship.

4.0 BIDDER REQUIREMENTS. The bidder shall furnish, with the bid, the tank manufacturer's name, descriptive literature containing specifications which the tanks are manufactured to, quality control documentation, and catalog number if applicable.



5.0 CERTIFICATION.

5.1 The supplier shall furnish to the General Services Division, Missouri Department of Transportation, P.O. Box 270, Jefferson City, Missouri 65102, at the time of bid, a certification stating that the tanks comply with the requirements of these specifications. The certification shall include the name of the molding powder used in the manufacture of the tanks furnished.

5.2 With response to each request for bid, the supplier shall furnish a signed certification stating that the tank delivered under the bid will meet all requirements of this specification. The signed certification statement shall be as follows:

This certifies that the tank shipment made by this company, under this bid will comply with MoDOT specification MGS 93-02 for Polyethylene tanks.

Signature: _____