

## ABOVE GROUND FUEL TANKS

### PART 1 - GENERAL

#### 1.01 QUALITY ASSURANCE:

A: Provide tanks in accordance with U.L. 142

#### 1.02 REFERENCES:

A: GOVERNING STANDARDS:

1. U.L. 142 Standard for steel aboveground tanks for flammable and combustible liquids.
2. National Fire Protection Assoc. (NFPA 30) Flammable Liquids
3. SwRI 97-04

#### 1.03 SUBMITTALS:

A: Shop Drawings:

1. Complete dimensional drawings
2. Accessories provided and complete description
3. Manufacturer's literature, including copies of manufacturer's instructions.
4. Calibration Charts.

B: Operational Instructions:

1. Installation instructions for all accessories
2. Operating and maintenance instructions for all accessories.

C: Test Report:

Submit report certifying that tank was inspected and tested as set forth in Part 3 of this Section

#### 1.04 IDENTIFICATION:

A: Attach to tank in conspicuous location a corrosion resistant nameplate inscribed with the following information:

1. Manufacturer's Name
2. Manufacturer's Address
3. Date of Manufacture
4. Buyer's Contract or Purchase Order No.
5. Tank Capacity
6. Tank Height
7. Tank Diameter

B: U.L. Certification Label for petroleum products shall be attached to each unit in a conspicuous location. This label shall apply to the complete fueler.

### PART 2 - PRODUCTS

#### 2.01 GENERAL DESCRIPTION

A: Unit shall consist of a steel double-wall aboveground horizontal storage tank mounted on saddles.

2.02 ACCEPTABLE MANUFACTURERS:

A: Metal Products Company

2.03 MATERIAL:

The tank, and all steel appurtenances shall be fabricated from commercial or structural grade steel. Only new materials shall be used. All carbon steel shall comply with the latest edition of the *Specification for Structural Steel, ASTM A36; or Specifications for Steel, Carbon (0.15 Maximum, Percent), Hot Rolled Sheet and Strip, Commercial Quality, ASTM A569.*

A: Tank Construction: (items in red may change based upon size)

1. All welded, fabricated from (1/4") hot rolled carbon steel walls and (5/16") heads.

B: Tank Size:

Primary Tank:

1. Volume: 10,000 Gallons  
 2. Diameter: 8'-0"  
 3. Length: 26'-8"

C: Secondary Tank

1. Volume: 11,000 Gallons  
 2. Diameter: 8'-6"  
 3. Length: 27'-2"

D: Tank Connections and openings

1. One (1) manway 24 inch diameter, flanged, bolted, and gasketed  
 2. Fill Connections  
 3. Suction connection  
 4. Normal Vent  
 5. Emergency Vents (per NFPA 30 guidelines)  
 6. Level Gauging connection

E: Assembly:

1. Tank to be furnished with saddles per Manufacturer's and Underwriters' Laboratories standards.  
 2. Secondary Tank shall be constructed to meet the requirements of both UL142 and SwRI97-04 for Fire-Resistant Double-Wall Aboveground Storage Tanks.  
 3. The tank shall be directly welded to the saddles as per UL.  
 4. Tank shall be furnished with an emergency vent designed to relieve internal tank pressure of the primary tank in excess of 0.5 psig.  
 5. Tank shall be furnished with an emergency vent designed to relieve internal tank pressure of the secondary tank in excess of 0.5 psig.  
 6. Unit shall be provided with lifting lugs capable of lifting the complete structure.  
 7. Tanks shall be supplied with a 4" 150# R.F. Flanged fitting at the lower end of the head of the tank to facilitate manifolding the two tanks together  
 8. See drawing for arrangement and location of tank connections.

F: Exterior Coating for Steel Parts

1. All exterior steel surfaces shall be factory coated with a two part epoxy coating as recommended by the manufacturer to suit the environment of the particular installation.

### **PART 3 - PRODUCTS**

#### 3.01 INSTALLATION:

- A: Tank shall be installed as shown on the drawings, and in accordance with the applicable codes of the National Fire Protection Association covering aboveground storage of fuels.
- B: After installation is complete, touch up any damage to tank.

#### 3.02 TESTS:

- A: Tank to be factory tested in accordance with the requirements of U.L.142.

Tanks shall be *Flameshield*<sup>®</sup><sup>TM</sup> as manufactured by Metal Products Company