



## **Texas Fiberglass Tanks Company**

### ***Highest Quality Fiberglass Tanks***

Texas Fiberglass Tanks is proud to have its headquarters in New Braunfels, Texas. Ideally situated the plant is ready to serve customers all over Texas, Oklahoma, New Mexico and the Gulf States, plus with our specialized hauling trucks and trailers, we can transport tanks to further fields.

### ***Fiberglass Tanks for the Oil Industry***

Because the oil field drilling industry demands products to withstand some of the most corrosive liquids on earth they require the peak in quality fiberglass tanks. Texas Fiberglass Tanks and its affiliate company produce over 50,000 lbs a week of finished products. With over 25 years of fiberglass manufacturing experience we promise to deliver the highest quality fiberglass tanks available.

### ***Fiberglass Tanks for Water Storage***

Texas Fiberglass Tanks manufacture tanks that also work very effectively for storing water. Fiberglass tanks can be used in delivering potable water for drinking as well as for irrigation.

### ***60,000 Square Foot Manufacturing Plant***

Since the fiberglass tank market place is increasing in demand, Texas Fiberglass Tanks is closing in on the completion of their new manufacturing facility, due to be brought online in November of 2008, located in New Braunfels Texas. This facility has easy access on and off of IH-35.



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# Oil Field Salt Water Storage

## Design Features

- Engineered for rigorous oil field use.
- Will not corrode, rust, or rot.
- Engineered to withstand the rapidly changing weather conditions the southern part of our country offers.
- Wide range of oil field tanks to suit your particular storage needs.
- Delivered by Texas Fiberglass Tanks fleet of delivery trucks to assure prompt and proper handling of your tank
- Isophthalic resins as the bonding agent for two plies of gun roving fiberglass and middle ply of 24 oz woven fiberglass producing a thickness of 220 mils.
- Each phase of production is watched scrupulously by our quality control department.
- Manufactured with Isophthalic Corrosion Resistant Resins.

Tank Sizes Available			
Barrels	Gallons	Diameter In Feet	Height In Feet
210	8820	10.0	15.0
300	12600	12.0	15.0
300	12600	15.5	9.0
300	12600	10.0	22.0
300	12600	15.5	9.0
500	21000	15.5	16.0
500	21000	12.0	25.0
750	31500	15.5	24.0
1000	42000	15.5	30.0

# Why Fiberglass Tanks

Fiberglass tanks, since their inception, have been a significant improvement over other types of tank construction. Their major benefits as compared to other tanks are:

- **A Significant Rigidity to Weight Ratio**

Fiberglass construction produces products that are flexible and strong and their weight is significantly less than steel. Steel can be damaged easily during shipping or on the construction site thus requiring repairs and time. In an oil field setting this could bring heat sources to explosive liquids. Fiberglass is extremely flexible but if damaged is easily repaired without producing heat, required for steel tanks, that would ignite liquids.

- **Ability to withstand corrosive liquids under many applications**

Resistance to corrosion in aggressive environments is one of the primary reasons for specifying fiberglass tanks. Typical types of corrosion do not affect fiberglass. This would include galvanic, aerobic, pitting and intergranular corrosion which harms metals but not fiberglass. Although fiberglass resists a wide range of chemicals and temperatures, it requires the right design, fabrication and installation to match the appropriate application. For example, fiberglass may be subject to chemical attack from hydrolysis, oxidation, or incompatible solutions; however, the proper resin/glass matrix will address this chemical attack problem.

- **Ability to withstand environmental stresses**

Since many oil fields are located in either hurricane or tornado country fiberglass tanks offer the ability to withstand winds and flying debris significantly better than steel.

- **Ease of Delivery**

Since the rise in fuel cost, fiberglass as noted before, has a significant reduction in the size to weight ratio. This makes the cost for delivery is measurably less. Another cost reduction is from the size of equipment needed, at the construction site, to off load and place at its final location.

## What is Fiberglass?

Fiberglass tanks contain glass fibers embedded in and cured thermosetting resin, hence the term Fiberglass Reinforced Plastic (FRP).

### Glass Fibers

All fiberglass begins as individual strands of glass drawn from a furnace of molten glass. Many strands of glass are formed simultaneously and gathered into a "strand" and a surface treatment "sizing" is added to maintain fiber properties. Glass strands are designed for several applications including water retention. The mechanical strength of a fiberglass product depends upon the amount, type and arrangement of glass fiber reinforcement within the material system and increases proportionally with the amount of glass fiber reinforcement.

### Resins

The second major component of fiberglass tanks is the thermosetting resin system. Thermoplastic resin systems are one of two basic groups of resins. However we are only concerned with one, depicted below, in the construction of fiberglass tanks.

Thermosetting plastics are resins that undergo an irreversible reaction when cured in the presence of a catalyst. They cannot be re-melted and are insoluble.

# Texas Fiberglass Tanks Transportation

Texas Fiberglass Tanks maintains a fleet of trucks and lowboy trailers for easy delivery of multiple tanks to the five states surrounding and including Texas. This reduces the hassle and delivery time that is associated with larger tanks of 10' or more to your site. The lowboy trailers allow the tanks to be off loaded with ease by cranes or other types of machinery.



## Standards

### **American National Standard ATSM standard 4097**

Tanks must comply with the American National Standard ATSM standard 4097 Standard Specification for Contact-Molded Glass-Fiber-Reinforced Thermoset Resin Corrosion-Resistant Tanks (copy attached).

This specification covers cylindrical tanks fabricated by contact molding for above-ground vertical installation, to contain aggressive chemicals at essentially atmospheric pressure, and made of a commercial-grade polyester or vinyl ester resin. Included are requirements for materials, properties, design, construction, dimensions, tolerances, workmanship, and appearance

### **American Petroleum Institute API 12**

This specification covers material, design, fabrication, and testing requirements for fiberglass reinforced plastic (FRP) tanks. Only shop-fabricated, vertical, cylindrical tanks are covered. Tanks covered by this specification are intended for above-ground and atmospheric pressure service.

## Contact Information

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