Double-Wall Fiberglass Underground Storage Tanks

XERXES CORPORATION
Xerxes Double-Wall Fiberglass Underground Storage Tanks

Xerxes fiberglass tanks – for today and tomorrow

Xerxes is headquartered in Minneapolis, Minnesota, and operates four manufacturing facilities strategically located to provide prompt delivery and quality service, both economically and efficiently, to your location. Xerxes’ commitment to quality and innovation is the foundation of the strong, long-lasting relationships we have with our customers. Xerxes engineers were the first to utilize integrally constructed ribs in fiberglass tanks for added strength. Xerxes was also the first to manufacture a UL-listed, double-wall fiberglass underground storage tank (UST) and to ship a double-wall UST with an interstice filled at the factory with monitoring fluid.

Unlike less durable goods, Xerxes tanks must perform to standards for decades. We believe in going the extra mile for our customers. It is our commitment to customer satisfaction and quality products that makes Xerxes the first choice in underground storage – for today and tomorrow.

The Xerxes Mission Statement

Xerxes Corporation is a leading developer, marketer and manufacturer of engineered fiberglass reinforced plastic (FRP) structural products for the petroleum, water/wastewater, chemical, industrial and commercial marketplaces. Our efforts are dedicated to providing high-quality, competitively priced products and services that meet the requirements of our customers. We are committed to a philosophy of growth and continual improvement of our products, services, processes and personnel in order to serve our stakeholders: customers, employees, stockholders and suppliers.
Long history of fiberglass tanks

After years of installing bare steel underground storage tanks for gasoline and diesel fuel, companies discovered, in the early 1960s, that the leakage from steel tanks – because of rust both inside and outside – caused environmental problems. Since the mid 1960s, rustproof fiberglass underground storage tanks (USTs) have provided a reliable option for safe containment of petroleum products.

Xerxes Corporation has been a pioneer in developing, manufacturing and marketing fiberglass tanks for the underground storage of these products, as well as various types of water, wastewater and approved chemicals, since the 1970s.

Today, a large percentage of USTs sold in the United States are made of fiberglass. In fact, more than 50 percent of all new petroleum tank installations are fiberglass and an estimated 95 percent of all tank purchases by major oil marketers are fiberglass. By 2007, more than 450,000 fiberglass tanks had been installed throughout the country.

Product line expands as environmental codes change.

For decades, Xerxes has proven itself an industry leader in developing and fabricating engineered fiberglass reinforced plastic (FRP) structural products. As customers’ needs change and as regulations become more complex, Xerxes continues its history of innovation by developing products that meet the changing needs of customers in the petroleum, water and wastewater industries. Today, the Xerxes tank product line includes single-wall, double-wall and triple-wall tanks (in single and multicomartment models) as well as the XTank® and oil/water separator. These tanks, along with a variety of accessories, provide safe, design-proven and cost-effective underground storage of liquids for a variety of applications.

Installation contractor training program

Many local, state and federal agencies, as well as many tank owners, require that UST installers are trained in the proper techniques of underground storage tank installation. Whether or not it is required, Xerxes believes that installation by trained professionals is the key to proper installation and the successful life of a UST system.

Therefore, Xerxes offers training in the proper installation of our fiberglass tanks. This training, through lecture, video, visual aids and discussion, includes preinstallation handling and testing, backfill-material selection, excavation parameters, proper installation techniques and requirements, and methods for anchoring and ballasting tanks. (See the Xerxes Installation Manual and Operating Guidelines For Single-Wall and Double-Wall Fiberglass Underground Storage Tanks.)
Why Xerxes fiberglass tanks?

Xerxes fiberglass underground storage tanks (USTs) offer a number of advantages:

1. A unique integral-rib design and construction of premium-resin and glass-fiber reinforcement make Xerxes fiberglass tanks among the strongest, most robust underground tanks available.

2. Fiberglass tanks are made of corrosion-resistant materials, eliminating the possibility of either external or internal rusting of the tank. While coating a steel tank externally or adding an anode can sometimes delay the process, it does not change steel's natural tendency to rust. Increasingly, internal corrosion of steel tanks is a growing concern as water bottoms in fuel tanks become more prevalent due to ethanol blending, steel tanks require frequent removal.

3. Fiberglass tanks are significantly lighter and easier to install than steel tanks, eliminating the need for rental of heavy equipment during installation.

4. Fiberglass tanks can often be moved from an original installation site and be recertified for installation at a new location.

5. Xerxes petroleum storage tanks come with a 30-year limited warranty against structural failure, and internal and external corrosion.
Why double-wall tanks?

Several factors lead companies and consumers to choose double-wall underground storage tanks, whether or not they are required by law to do so:

1. Xerxes fiberglass double-wall tanks are rustproof and maintenance-free, and are formulated to be compatible with petroleum-fuel products, including alcohols and alcohol-gasoline mixtures.

2. Two walls of protection allow for maximum security in the unlikely event of a leak in the primary wall.

3. Xerxes tanks offer a full 360-degree secondary containment. Unlike other types of double-wall or jacketed tanks, the secondary containment can be pressure tested at the installation site both prior to and after installation.

4. Various types of monitoring devices can be installed in the interstitial space inherent in double-wall tanks. With Xerxes’ TRUCHEK® hydrostatic monitoring system, owners/users are able to conduct a tank-tightness test that meets EPA criteria and has Underwriters Laboratories’ (UL) third-party verification.
Quality materials and construction mean decades of worry-free service.

Stringent performance standards

Every standard Xerxes double-wall tank is vacuum tested at the factory to 11.5” of mercury, which exceeds the Underwriters Laboratories requirement. In addition, each Xerxes tank is subjected to a 5 psig air/soap test, ultrasonic-thickness verification and a barcol-hardness test. Xerxes’ standards meet or exceed those required by Underwriters Laboratories and ensure that every Xerxes tank is a superior investment.

Unique fiberglass design & construction

Xerxes double-wall tanks are manufactured of high-quality resin and glass, and feature a unique integral rib design. Like fluting in corrugated board, the integral ribs in our fiberglass tanks add strength. The integral ribs and tanks are made of the same materials and are manufactured simultaneously, thus providing an extremely robust product.

Alcohol fuels compatible

All Xerxes double-wall tanks are manufactured with premium-resin and glass-fiber reinforcement formulated to be compatible with petroleum products, alcohols and alcohol-gasoline mixtures. (See applicable limited warranties.)
Dimensional Data – Standard Double-Wall Tanks

4'-Diameter Tanks

Symbol Identification

A. 4" NPT Fitting
B. 4" NPT Monitor/Reservoir Fitting
C. 22”-Dia. Fiberglass Manway (with 4" NPT fittings in cover)
D. Lifting Lug

1,000 Gallons

4'-1" O.D.

600 Gallons

3 1/4"

7' - 3 1/2" 10 5/8"

4' - 1" O.D.

62"

3 1/4"

7' - 3 1/2"

1,000 Gallons

9' - 3"

12 1/8"

3 1/4"

6 1/2"

11' - 7 1/2"


6'-Diameter Tanks

Symbol Identification

A. 4" NPT Fitting
B. 4" NPT Monitor Fitting
C. Optional Fiberglass Reservoir (must be ordered separately)
D. 22”-Dia. Fiberglass Manway (with 4" NPT fittings in cover)
E. Lifting Lug

2,500 Gallons

6'-3 1/2" O.D.

37 3/4"

17 1/4" (TYP)

6'-3 1/2" O.D.

37 3/4"

17 1/4" (TYP)

4,000 Gallons

3,000 Gallons

4,000 Gallons

5,000 Gallons

6,000 Gallons

6'-3 1/2" O.D.

55"

86 1/4"

16 1/4"

55"

86 1/4"

16 - 4 1/4"

55"

86 1/4"

16 - 4 1/4"

55"

86 1/4"

16 - 4 1/4"
Dimensional Data – Standard Double-Wall Tanks

8'-Diameter Tanks

4,000 Gallons

5,000 Gallons

6,000 Gallons

10,000 Gallons

12,000 Gallons

8,000 Gallons

15,000 Gallons

10'-Diameter Tanks

10,000 Gallons

12,000 Gallons

15,000 Gallons

20,000 Gallons

Symbol Identification

A 4" NPT Fitting
D 4" NPT Monitor Fitting
E Optional Fiberglass Reservoir (must be ordered separately)
F 22"-Dia. Fiberglass Manway (with 4" NPT fittings in cover)
S Lifting Lug

Strap Location

10'-4" O.D.
Dimensional Data – Made-To-Order Double-Wall Tanks

10’-Diameter Tanks

25,000 Gallons (made-to-order)

30,000 Gallons (made-to-order)

35,000 Gallons (made-to-order)

40,000 Gallons (made-to-order)

Symbol Identification

D 4” NPT Monitor Fitting
E Optional Fiberglass Reservoir (must be ordered separately)
S Lifting Lug

Note:
These tanks are made-to-order only, and every manway and fitting location is to be specified.
To enhance the double-wall protection of a Xerxes double-wall tank, Xerxes offers the option of TRUCHEK®, a hydrostatic, tank-monitoring system for double-wall tanks. TRUCHEK is an easy, precise and reliable method for providing continuous leak detection and also for performing a tank-tightness test. Like the tanks that Xerxes manufactures, TRUCHEK provides a long, successful record of performance. For well over a decade, this system has successfully monitored thousands of tanks in many different types of installations. Changing regulations in some markets require that double-wall tanks have continuous leak detection using a constant vacuum, air pressure or hydrostatic pressure in the interstice of a double-wall tank. A Xerxes double-wall tank with TRUCHEK's continuous leak detection is the ideal solution for complying with these strict new requirements. While being highly effective, TRUCHEK is also simple and trouble-free in both design and operation. With TRUCHEK, simple monitoring of the fluid level inside the reservoir of a Xerxes double-wall tank is all that is necessary. (See the Xerxes TRUCHEK brochure for more information.)

TRUCHEK® Monitoring System – Double-wall protection at its best

To enhance the double-wall protection of a Xerxes double-wall tank, Xerxes offers the option of TRUCHEK®, a hydrostatic, tank-monitoring system for double-wall tanks. TRUCHEK is an easy, precise and reliable method for providing continuous leak detection and also for performing a tank-tightness test. Like the tanks that Xerxes manufactures, TRUCHEK provides a long, successful record of performance. For well over a decade, this system has successfully monitored thousands of tanks in many different types of installations. Changing regulations in some markets require that double-wall tanks have continuous leak detection using a constant vacuum, air pressure or hydrostatic pressure in the interstice of a double-wall tank. A Xerxes double-wall tank with TRUCHEK’s continuous leak detection is the ideal solution for complying with these strict new requirements. While being highly effective, TRUCHEK is also simple and trouble-free in both design and operation. With TRUCHEK, simple monitoring of the fluid level inside the reservoir of a Xerxes double-wall tank is all that is necessary. (See the Xerxes TRUCHEK brochure for more information.)

Here’s how TRUCHEK works: (See drawings.)

When you order a Xerxes double-wall tank with the TRUCHEK option, the interstice between the two tank walls is filled at the factory with a monitoring fluid. The monitoring fluid also partially fills a reservoir on the top of the tank. This creates a hydrostatic pressure that enables the operator to monitor the walls of both the primary tank and the secondary tank. An electronic reservoir-monitoring probe alarms when the fluid level either falls below or rises above the acceptable level within the reservoir.

![Reservoir Level Down](image1)

**Primary-Tank Leak in Wet Hole or Dry Hole**

![Reservoir Level Down](image2)

**Secondary-Tank Leak in Wet Hole**

![Reservoir Level Up](image3)

**Secondary-Tank Leak in Dry Hole**

![Leak in Outer Wall](image4)
### Optional Tank Accessories

#### Tank Fittings

These NPT fittings allow access to the interior of the tank. Fittings must be located along the top centerline of the tank. They are available in 2", 4" and 6" NPT half-couplings. See standard drawings for size and quantities.

<table>
<thead>
<tr>
<th>Fitting pattern</th>
<th>No. of fittings (4&quot; NPT)</th>
<th>22&quot; Manway</th>
<th>30&quot; Manway</th>
<th>36&quot; Manway</th>
<th>Spacing</th>
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**Notes:**
1. All covers are provided with a 3/8" NPT plug to bleed manways during precision tank testing.
2. Standard fittings are 4" NPT forged half-couplings.
3. Made-to-order covers are available upon request.
4. On configurations "G" and "C" above, the 6" fitting must be located in the center of the manway cover.
5. When ordering nonstandard tanks, specify manway-cover fitting configuration.

#### Fiberglass Manways

Manways provide access to the interior of the tank as well as a location for fittings. The standard manway I.D. is 22". Manways with 30" and 36" I.D.s are available on certain tanks. Each manway is provided with a steel cover, plated bolts, nuts and washers, and a UL-listed gasket.

#### Optional Manway-Cover Fitting Configurations

#### Duplex Fittings

Duplex NPT fittings allow for the placement of two fittings in one location. Fittings are placed on each side of the tank’s centerline. Fittings are available in 2", 4" and 6" NPT half-couplings.

#### Monitor Fittings

The 4" NPT monitor fitting provides access to the interstitial space for the placement of sensors to detect the presence of liquid.

#### Bolt hole configurations

- **Manway size:** 22" 30" 36"
- **Dia. of cover:** 28" 37 1/2" 46"
- **Bolt circle dia.:** 26" 34 1/2" 42 3/4"
- **Bolt hole dia.:** 3/4" 3/4" 3/4"
- **Bolt size:** 5/8" 5/8" 5/8"
- **No. of bolts:** 24 30 32
Optional Tank Accessories

Fiberglass Reservoirs
A Xerxes double-wall tank shipped with a monitoring fluid in the interstice includes a fiberglass reservoir for monitoring the level of fluid. As an option, a reservoir can also be added to a dry interstice tank, allowing for future filling of the interstice with monitoring fluid.

Fiberglass Nozzles – Flanged and Gusseted
Flanged and gusseted fiberglass reinforced plastic (FRP) nozzles are available in 2", 4", 6" and 8" diameters. The flange face matches the ANSI 150# bolting pattern. Mating flanges must be flat-faced. These nozzles may only be placed on the top centerline of UL-listed tanks.

Fiberglass Fill Tubes
Fill tubes are threaded into the bottom of a 6" x 4" NPT double-tapped reducer bushing, which is threaded into a 6" fitting. The bottom of the fill tube is located 4" above the bottom of the tank with the open end slanted 45°.

Fiberglass Hold-Down Straps
Straps are used when a tank requires anchoring. The straps provide the link between the tank and the anchoring hardware. For more information on straps and their use, refer to the current Xerxes Installation Manual and Operating Guidelines.

Deadmen
Deadmen supplied by Xerxes are designed to American Concrete Institute (ACI) standards, which include the use of reinforcement. Galvanized tie-down anchor points are adjustable, making it easier for the installer to properly position them at the hold-down-strap locations on the tank.

Turnbuckles
Xerxes-supplied turnbuckles are drop-forged and are sized to the tank ordered: 10’-diameter tanks require 3/4” x 18” turnbuckles, 8’-diameter tanks require 3/4” x 12” turnbuckles, 6’-diameter tanks require 3/4” x 9” turnbuckles. Xerxes turnbuckles will connect the tank straps directly to the concrete anchors. No wire rope or clamps are necessary with the required number of turnbuckles.
Man-Out-of-Hole (MOH) Straps
Xerxes man-out-of-hole connectors and straps are used as an alternative to standard strap anchor systems when personnel cannot enter the excavation.

Lifting Lugs
Each tank has a minimum of one lifting lug and may have more if rotated for shipping.

Tank Ladders
FRP, aluminum or carbon-steel ladders are available. Ladders that extend into a manway extension require a 36"-diameter manway and extension.

Containment Collars
Available in single-wall or double-wall, the fiberglass containment collar can be used to surround fittings or a manway. Collars are available in 42"- or 48"-diameter sizes and are typically used with containment sumps.

Containment Sumps
In single-wall and double-wall models, Xerxes fiberglass containment sumps are available in 42"- and 48"-diameter sizes and a variety of lid sizes and styles. The containment sump is intended for use with the corresponding-size containment collar. Adhesive kits for field bonding to the collar are included. See Xerxes' separate containment sump literature for more information.

Manway Extensions
When bolted to the manway, an extension provides watertight access to the tank interior. Extensions are available in 22", 30" and 36" diameters, and in heights from 2 feet, increasing in 1-foot increments. Extensions include nuts, bolts, washers and a gasket.
Guide Specifications – Double-Wall FRP Tanks for Fuel Storage

Short form:
The contractor shall provide a double-wall fiberglass reinforced plastic (FRP) Underwriters Laboratories-labeled underground storage tank as shown on the drawings. The tank size, fittings and accessories shall be as shown on the drawings. The fiberglass tank shall be manufactured by Xerxes Corporation.

The tank shall be tested and installed according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.

Long form:
Part I: General
1.01 Quality Assurance

A. Acceptable Manufacturer: Xerxes Corporation
B. Governing Standards, as applicable:
1. Underwriters Laboratories (UL) Standard for Safety 1316, File MH 9061 for storage of flammable liquids. A UL label shall be attached to each tank.
2. National Fire Protection Association (NFPA) Standards:
   - NFPA 30: Flammable and Combustible Liquids Code
   - NFPA 30A: Automotive and Marine Service Station Code
   - NFPA 31: Installation of Oil-Burning Equipment.
3. City of New York Department of Buildings M.E.A., Division #161-89-M.
4. Los Angeles Fire Department

Part II: Products
2.01 Double-Wall Fiberglass Reinforced Plastic (FRP) Underground Storage Tanks:
A. Loading Conditions – Tank shall meet the following design criteria:
   1. Internal Load – Tank shall withstand a 5-psig air-pressure test with 5:1 safety factor. Contractor shall individually test tanks for leakage prior to installation. Maximum test pressure is 5 psig.
   2. Vacuum Test – To verify structural integrity, every standard 10’-diameter tank and smaller shall be vacuum tested by the manufacturer at the factory to 11.5” of mercury.
   4. External Hydrostatic Pressure – Tank shall be capable of being buried in ground with 7’ of overburden over the top of the tank, the hole fully flooded and a safety factor of 5:1 against general buckling.
   5. Tank shall support accessory equipment – such as heating coils, drop tubes, submersible pumps and ladders – when properly installed.
B. Product Storage:
1. Tank shall be capable of storing petroleum products with specific gravity up to 1.1.
2. Tank shall be vented to atmospheric pressure.
3. Tank shall be capable of storing products identified in the manufacturer’s current standard limited warranty.
C. Materials:
1. Tank shall be manufactured with 100% resin and glass-fiber reinforcement. No sand fillers.
D. Tank Dimensions (Refer to Xerxes literature on gallonage):
1. Tank shall have nominal capacity of ___ gallons.
2. Tank shall have nominal outside diameter of ___ feet.

E. Interstitial Space
1. Tank shall have a space between the primary and secondary walls to allow for the free flow and containment of leaked product from the primary tank. The space also allows the insertion of a monitoring device through a monitoring fitting.

2.02 Accessories
A. Optional Anchor Straps
1. Straps shall be FRP anchor straps as supplied by tank manufacturer.
2. Number and location of straps shall be specified in current literature by tank manufacturer.
B. Manways
1. All manways shall be flanged and 22” I.D., complete with UL-listed gaskets, bolts and covers. (30” and 36” I.D. manways are also available on certain larger tanks.)
2. Location is shown on tank drawings.
3. Optional manway extensions shall be FRP and 24” long.
C. Optional Fill Tubes
1. Fill tubes shall be FRP, 4” in diameter, with a 6” x 4” double-tapped reducer bushing, and include a 6” NPT fitting. Tubes shall terminate a minimum of 4” from the bottom of tank (a minimum of 6” for a 12”-diameter tank).
D. Gauge Plates
1. Gauge plates shall be installed under each service fitting and manway opening.
E. Optional Heating Coils
1. Optional heating coils shall be installed in a separate 22” manway and shall be as supplied by tank manufacturer.
F. Optional Ladders
1. Ladders shall be the standard ladder as supplied by tank manufacturer (aluminum, carbon steel or fiberglass).

G. NPT Threaded Fittings
1. All standard threaded fittings shall be half-couplings and shall be 4” or 6” in diameter. Reducers are to be used for smaller sizes where shown and provided by contractor.
2. Strength – NPT fittings shall withstand a minimum of 150 foot-pounds of torque and 1,000 foot-pounds of bending, both with a 2:1 safety factor.

H. Monitor Fittings
1. Each monitor fitting shall consist of a 4” NPT fitting on the tank. Tanks with a hydrostatic monitoring system do not have a monitor fitting.

Part III: Testing and Installation
3.01 Testing
A. Tank shall be tested according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.

3.02 Installation
A. Tank shall be installed according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.
B. Contractor shall be trained by the tank manufacturer, the state or other approved agency.

Part IV: Warranty
4.01 Warranty
A. Warranty shall be manufacturer’s standard limited warranty in effect at time of purchase.

* TM Arco Chemical Co.
Limited Warranty
Petroleum or Alcohol Fuels Storage for Double-Wall Underground Petroleum Storage Tanks with Resin Specified for Expanded Fuels

Xerxes Corporation ("Xerxes") warrants to ("Owner") that our double-wall underground storage tanks, if installed, used, and maintained in the United States in accordance with Xerxes' published specifications, installation instructions and operating guidelines, and all applicable laws and regulations:

1) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to natural external corrosion.
2) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to internal corrosion, provided the tank is used solely, with or without tank water bottoms, to store the following products at ambient temperature, or fuel oils at temperatures not to exceed 150° F:
   a. gasoline, jet fuel, aviation gasolines, motor oils, motor vehicle waste oils, kerosene, diesel fuels, or fuel oils
   b. alcohol, alcohol-gasoline blend, and oxygenated motor fuels
1. ethanol and ethanol blends
   • 100% ethyl alcohol
   • gasohol (90% gasoline and 10% ethyl alcohol)
   • E85 (85% ethanol and 15% gasoline)
2. methanol and methanol blends
   • 100% methyl alcohol
   • M85 (85% methanol and 15% gasoline)
   • Oxinol-50 \(^1\) waiver (90.5% gasoline and 9.5% Oxinol-501 comprised of a 4.75% methanol and 4.75% GTBA mixture)
   • Dupont EPA waiver (gasoline with 5% methanol and a minimum of 2.5% cosolvent – the blend may contain a maximum concentration of up to 3.7%, by weight, oxygen in the final fuel)
3. other oxygenated fuels
   • gasoline with up to 20%, by volume, of methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), or tertiary amyl ethyl ether (TAEE)
3) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to structural failure (defined as spontaneous breaking or collapse caused by material defects in materials or workmanship).
4) Will meet Xerxes' published specifications and will be free from material defects in materials and workmanship for a period of one (1) year following the date of original delivery by Xerxes.
   If any tank is to be removed from an installation, moved to Owner's new location and is intended for active service at the new location, the tank must be recertified by Xerxes in order to maintain the warranty as originally extended.

Xerxes warrants to Owner that all Xerxes manufactured tank accessories, if installed, used and maintained in the United States in accordance with Xerxes' published specifications, installation instructions and operating guidelines, and all applicable laws and regulations, will be free from material defects in materials and workmanship for a period of one (1) year following the date of original delivery by Xerxes.

The foregoing warranty does not extend to tanks or accessories ("Goods") damaged due to acts of God, war, terrorism, or failures of Goods caused, in whole or in part, by misuse, improper installation, storage, servicing, maintenance, or operation in excess of their rated capacity or contrary to their recommended use, whether intentional or otherwise, or any other cause or damage of any kind not the fault of Xerxes. Xerxes only warrants repairs or alterations performed by Xerxes or its authorized contractors. Xerxes does not warrant any product, components or parts manufactured by others.

Owner's sole and exclusive remedy for breach of warranty is limited at Xerxes' option to: (a) repair of the defective tank or accessory, (b) delivery of a replacement tank or accessory, to the point of original delivery, or (c) refund of the original purchase price. A claimant must give Xerxes the opportunity to observe and inspect the tank and accessory prior to removal from the ground or the claim will be forever barred. All claims must be made in writing within one (1) year after tank and/or accessory failure or be forever barred. THE FOREGOING WARRANTY CONSTITUTES XERXES' EXCLUSIVE OBLIGATION AND XERXES MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, WITH RESPECT TO THE TANK, ACCESSORY OR ANY SERVICE, ADVICE, OR CONSULTATION, IF ANY, FURNISHED TO OWNER BY XERXES OR ITS REPRESENTATIVES, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. THE SELLER (XERXES) UNDERTAKES NO RESPONSIBILITY FOR THE QUALITY OF THE GOODS, EXCEPT AS OTHERWISE PROVIDED IN THIS CONTRACT. THE SELLER (XERXES) ASSUMES NO RESPONSIBILITY THAT THE GOODS WILL BE FIT FOR ANY PARTICULAR PURPOSE FOR WHICH YOU (OWNER) MAY BE BUYING THESE GOODS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT. THE REMEDIES SET FORTH IN THE ABOVE WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON OR ENTITY FOR BREACH OF WARRANTY OR FOR BREACH OF ANY OTHER COVENANT, DUTY, OR OBLIGATION ON THE PART OF XERXES. XERXES SHALL HAVE NO LIABILITY OR OBLIGATION TO ANY PERSON OR ENTITY FOR BREACH OF ANY OTHER COVENANT, DUTY OR OBLIGATION UNDER THIS WARRANTY EXCEPT AS EXPRESSLY SET FORTH HEREIN. IT IS EXPRESSLY AGREED THAT THIS WARRANTY DOES NOT FAIL OF ITS ESSENTIAL PURPOSE. XERXES SHALL HAVE NO LIABILITY FOR COSTS OF INSTALLATION OR REMOVAL OF GOODS, ENVIRONMENTAL CONTAMINATION, FIRES, EXPLOSIONS, OR ANY OTHER CONSEQUENCES ALLEGEDLY ATTRIBUTABLE TO A BREACH OF WARRANTY, OR INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER DAMAGES OF ANY DESCRIPTION, WHETHER ANY SUCH CLAIM OR DAMAGES BE BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER TORT, OR OTHERWISE. IN NO EVENT SHALL XERXES' TOTAL LIABILITY HEREUNDER EXCEED THE ORIGINAL PURCHASE PRICE OF THE GOODS WHICH GAVE RISE TO SUCH LIABILITY.

Consumer Notice: This warranty gives you (Owner) specific legal rights. You (Owner) may also have other rights which vary from state to state.

\(^1\)TM Arco Chemical Co. Effective: 6/1/05
Manufacturing Facilities

Anaheim, CA
Phone (714) 630-0012
Fax (714) 632-7133

Hagerstown, MD
Phone (301) 223-6961
Fax (301) 223-6836

Seguin, TX
Phone (830) 372-0090
Fax (830) 372-0321

Tipton, IA
Phone (563) 886-6172
Fax (563) 886-2042