

Amiantit Oman

## Double-Walled Fibreglass Underground Storage Tanks

For Petroleum Products, Alcohols & Alcohol-Gasoline Mixtures



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## Amiantit Oman

### Leaders in Pipe, Infrastructure & Moulded Products

Amiantit Oman was incorporated in 1974 by a Royal Decree of His Majesty Sultan Qaboos Bin Said. The company is now one of the largest manufacturing companies in the Sultanate of Oman with diverse product range. The Company is a joint venture of Omzest and Bahwan Groups, the leading business groups of Sultanate of Oman. Amiantit Oman is a stellar example of leadership through innovation, sustained growth and quality consciousness.

The company takes pride in its achievements which include His Majesty's Award for being one of the best five factories in the years for several years.

Today, its products enjoy unrivalled leadership in Oman's construction and infrastructure development sector. Amiantit Oman product range is split across five verticals namely PVC, HDPE pipes and fabrication products, Rotational moulding products, Glass Reinforced Concrete applications and Glass Reinforced Plastic products.

Amiantit Oman, an ISO 9001 company, is fully committed to delivering quality through its entire range of products and services. The company is also accredited with ISO 14001 and 18001, which reflect its concern for environmental care and occupational safety.

True to its tradition, Amiantit Oman has once again pioneered the introduction of 'Double Wall Fiberglass Underground Storage Tanks' which is the ideal underground storage solution for Petroleum products, Alcohols & Alcohol Gasoline mixtures.

The technology has been developed in house with its expert and dedicated team of Engineers and Technicians. As a testimony to our quality and design, our UST's have passed the stringent tests of Underwriters Laboratory (UL) and have been certified with UL1316 standard specifically covering the scope of our product..

The Double Wall Underground Storage tanks are manufactured by the latest Filament Winding technology which renders it to be mechanically and structurally superior to many other tank manufacturing technologies in the world such as spray up technology, which is structurally weaker and requires special consideration of backfilling during installation. Our double wall tanks have a unique annular space which is ideal for leak monitoring. The tanks are provided with a dry interstice, which can be filled with brine solution for leak monitoring.

Our double-wall fiberglass tanks are superior & environmentally safer compared to steel tanks as they are 100% corrosion free.

## History of Fiberglass tanks

Before the advent of fiberglass tanks, traditionally bare steel was the material used for making underground tanks for storage of gasoline and diesel fuel. In 1960's it was observed that the environmental damage was caused by the leakage of steel fuel tanks because the steel tanks used to rust from both the inside and outside, despite all types of protection.

It was around this time that fiberglass tanks came in vogue and ever since they are being successfully used all over the world. Initially it used to be single wall fiberglass tanks and over the years double wall tanks have been developed and deployed very successfully, as these tanks provide the additional advantage of leak monitoring by way of their interstitial space in-between the two walls of the tank. Presently, more than 50% of the UST's all over the world are of fiberglass. In fact, the figure is much higher in countries like Canada & USA.

## Product line

The Fiberglass underground storage tanks manufactured by our company are primarily for use in storage of Petroleum products. However, our tanks can be deployed for sewer, chemicals & oil water separators with minor design changes and other application sectors wherever leak prevention is crucial.

Optional tank accessories like fiberglass man-way extensions deadman anchor, tank fittings, fiberglass man ways, Optional man-way covers can be supplied upon request.

## Tank Installation

Tank installation is a very serious business and successful performance of the tank is directly dependent on the correct installation of the tank.

Most countries, state & local authorities insist on a method statement for installation of the tank so that the installation contractor does a good installation with the correct techniques to guard against the tank failure and consequent damage to the environment. Our tank installation instructions are comprehensive & we also guide the installers in following the correct technique.

## Why Amiantit Oman fiberglass tanks?

Amiantit underground storage tanks (UST) offer a number of advantages

- Fiberglass tanks are manufactured by the most advanced filament winding technology which makes it mechanically and structurally superior to all other methods of manufacture found worldwide.
- Fiberglass tanks are absolutely 100% corrosion free and easily resist the chemical & corrosive action of petroleum and allied products enumerated. They are made from materials approved by the Underwriters Laboratory. The conventional steel tanks eventually rust and fail in spite of all types of protection from both the inside and the outside. With the recent development in ethanol blended fuels, this problem has become even more serious. Steel tanks require frequent maintenance which substantially increases the life cycle cost and also the shut downs.
- Fiberglass tanks are much lighter than steel tanks, which makes it easier to install & eliminates the need of heavy equipment.
- Fiberglass tanks can be moved from original location to a new location and recertified for installation.
- Fiberglass tanks are covered with a 30 year warrantee against structural failure, internal and external corrosion provided correct installation methods are followed.





## Why Double Wall Fibreglass tanks?

Companies and consumers opt for the double wall underground Fiberglass storage tanks worldwide due to the several advantages offered by the product

- Both the walls of our double wall tanks are fiberglass in construction and are rust proof and literally maintenance free.



TANK UNDER PRESSURE  
& VACUUM TEST



- The composition of the fiberglass are designed and formulated to be compatible with Petroleum-fuel products, including alcohols and alcohol gasoline mixtures. The raw material used is for the fabrication of the tank of also approved by UL.
- The double wall tanks can be leak monitored in the unlikely worst scenario of leak from the primary tank or from the outside.
- Amiantit double wall tanks offer 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.
- Both dry and wet monitoring is possible through the interstitial space between the interior and exterior wall.

## Quality product ensures decades of hassle free service life

### Quality

- Amiantit Oman has a comprehensive quality system and follows the UL guidelines for its Quality, Inspection and testing plan.
- All the UST's produced at Amiantit undergo a stringent quality control test.
- The primary tank and the annular space of the double wall tank is pressure tested at 0.35bar.
- Each tank is tested to partial vacuum of 0.38bar.
- Each tank is subject to Barcol hardness test to verify the cure of the resin system used for the tank.

### Raw material, process and design

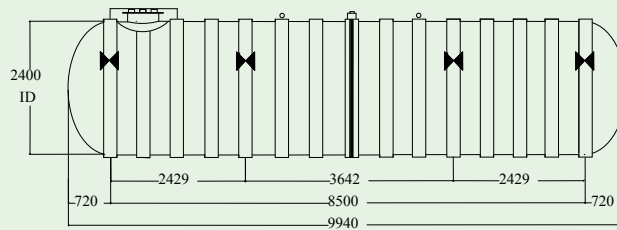
- Amiantit Oman Double wall tanks use quality raw materials approved by UL for the construction of the tank.
- The manufacturing process adopted for the tank is the filament winding process, which renders structurally superior tank as compared to the other spray up process.
- The design of the tank is with integral solid filament wound ribs taking into consideration the worst condition encountered by the tank.

### Compatibility with petroleum products

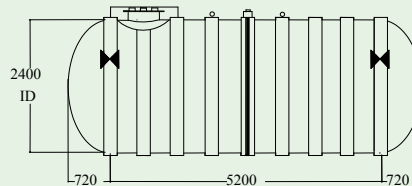
Our double wall fiberglass tanks have been certified by the Underwriters Laboratory (UL) for containing all petroleum products, alcohols & alcohol gasoline mixtures, which virtually covers the entire spectrum of petroleum based products. This is very significant in the modern world where ethanol is widely prevalent in the blending of gasoline fuels.

## Standard double-wall tank capacities and dimensions

45kl nominal capacity tank



30kl nominal capacity tank



Standard / Made to Order (MTO) tank data

Type	Sl#	Nominal Capacity (Litres)	Actual Capacity (Litres)	Nominal Diameter (mm)	Overall Length (mm)	Number of 600mm Manways	Number of Size of Fittings	Number of monitor Fittings	Number of straps (If Required)
Standard	1	30000	27865	2400	6640	1	6-4' NPT	1	2
	2	45000	42770	2400	9940	1	7-4' NPT	1	4
Made to Order Tanks (MTO)	1	15000	14790	2400	3750	1	6-4' NPT	1	2
	2	20000	19720	2400	4840	1	6-4' NPT	1	2
	3	25000	24968	2400	5940	1	6-4' NPT	1	2
	4	35000	33067	2400	7740	1	6-4' NPT	1	4



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