

THE ALL-ROUND WEHOLITE TANK



Your answer to
Storage of
hygienic water,
industrial chemicals
&
Sewage



Manufactured under licence from K.W.H., Finland

Introduction

Weholite HDPE tanks are innovative thermoplastic storage tanks manufactured and marketed in the Sultanate of Oman by Amlantit Oman Co.LLC.

Applications

- Potable Water
- Agriculture
- Industrial Chemicals
- Textile, Chemicals & dyes
- Sewage
- Fuel
- Agglutators

The versatility of Weholite HDPE tanks make them the ideal choice for the use in Heavy duty conditions.

Design

Weholite HDPE Vertical Tank is manufactured from vertical cylindrical shell, flat base and conical top. Horizontal tank is manufactured from cylindrical shell with flat or dished ends and is available in colours - black and white.

The tank wall design is based on ISO hoop stress formula to resist hydrostatic pressure head imposed by the stored media in the tank. Tank of considerable height can be manufactured to optimum design and cost.

The tank lifetime is well in excess of 50 years.

Manufacture

Weholite HDPE Tanks are manufactured from U.V. resistant, food grade High Density polyethylene using a spirally wound section that produces a double walled construction and fused by continuous welding process. The design and wall thickness of tanks are determined by the installation environment and operating conditions.



Salient Features

The benefits of using HDPE for the storage of aggressive chemicals, effluents are significant.

a) Chemical and corrosion Resistance

HDPE is an ideal tank material because of its outstanding resistance to most of the chemicals, including some that attack conventional tank materials. Only certain solvents, aromatic hydrocarbons affect PE if present in

relatively high concentrations. (A chemical resistance table for HDPE can be availed on request).

The scouring and scratching due to normal wear and tear do not produce weak points where corrosion can initiate.

b) Environmental Resistance

Weholite HDPE Tanks are made from U.V. resistant polyethylene and are suitable for outdoor installation. They are maintenance free, require no painting, do not discolour or crack.

c) Inert and Non-Toxic

HDPE tank is effectively inert and non-toxic, hence it does not corrode or contaminate



the stored materials. The chemicals, organic and inorganic normally found in sewage have no effect on the tank. It also does not promote algae or bacterial growth.

d) Durable

The impact resistance of HDPE is quite outstanding. The tough, ductile nature of the material enables HDPE tanks to accommodate stress due to transportation and handling that could normally cause damage to tanks manufactured from more rigid, brittle materials.



e) Abrasion Resistance

HDPE has exceptional resistance to abrasion, about 2 to 3 times to that of steel and is superior to other conventional tank material.

f) Lightweight

Weholite Spiral HDPE Tanks are considerably lighter than tanks manufactured from conventional materials. The Weholite HDPE Tanks do not require any expensive structural strengthening or special handling equipment.

g) Easily Cleaned

Weholite spiral HDPE Tanks can be cleaned with mild detergent and clean water. Steam cleaning is permissible under controlled conditions.

The smooth, non-wetting surface minimizes the possibility of substances adhering to the internal surface of the tank, generally reduces the need for frequent cleaning.

Handling

Weholite Spiral wound HDPE Tanks are ductile and easily accommodate normal impacts associated to tank handling and installation. However, a few precautions will ensure minimal damage.

- a) Large size Tanks should be lifted or lowered using a forklift or similar hoisting equipment with the aid of nylon slings fastened to the lifting lugs provided on the tank or by wrapping the sling around the tank

- b) Smaller size HDPE tanks can be lifted or lowered with a help of forklift.
c) Fittings are not structural members and should not be used as lifting aids.
d) The tank should not be lifted with any fluid inside.

Installation

The cylindrical vertical tanks are suitable for above ground installation only. The tank should be placed on a flat level floor free from any sharp protruding objects. In case of large tanks exposed to windy conditions, the base should be bolted to the floor.

The cylindrical horizontal tanks are suitable for installation both above and below ground. In case of above ground installation, the tank should be placed on a leveled semi-circular, continuous concrete / block work support. In case of under ground installation, the trench of the tank should be backfilled in lifts and compacted up to 95% standard proctor. Proper care should be taken to avoid sharp objects to come in direct contact with the tank.

After the tank is positioned, ensure all connecting pipe work is correctly aligned and supported to avoid the tank fitting from stress.

