

TANKS WEST

WE BUILD THE BEST

CHEMICAL AND SPECIAL APPLICATION TANKS

Our aim at Tanks West is the selection of the most cost effective long term solution to your storage requirements and without the right information we can't do our job properly.

The purchase of tanks for the storage of chemicals or for use in specific environments requires some special consideration. The purchaser needs to clearly state the type of liquid being stored, the physical environment in which the tank is to be installed and what, if any, additional hazards may exist. Please use the check list below, as it will help us provide you with the best and most economic tank for your purpose.

If you have received this sheet with a quotation, please check through the items listed and if you have overlooked anything, don't hesitate to give us a call (toll free 1800 812 677). We can usually redo the quote and get it back to you the same day.

A final word of warning, when you are comparing quoted prices always make sure you are comparing like with like. Isophthalic and Terephthalic Polyesters together with Vinyl Ester resin systems will always be more expensive than standard water tanks. Tanks will look much the same no matter what resin system and reinforcing level is used, it is only when you put them into service that the differences become apparent. If you are in doubt, ask what standards the tank complies with and on what basis the resin system was selected.

What Type of Chemical

The selection of a resin and reinforcement system will depend on the nature of the chemical to be stored. This selection will be carried out by reference to published chemical resistance tables and/or reference to industrial chemists experienced in the area. It is advisable to provide MSDS certificates where uncommon chemicals or mixtures of chemicals are involved. Any historical data you may have is always useful, i.e. what sort of containers do you buy the chemical in?

Concentration

Resin selection may change with the concentration of chemical, what is suitable at a 5% concentration may not be at 50%, so always list the concentration.

pH & SG (Specific Gravity)

Always include these two important parameters as they influence not only the type but also the quantity of material required to make the tank.

Temperature

The suitability of a particular resin system is dependent on the temperature it will encounter. All plastics have a heat distortion temperature (HDT) and a suitable safety margin (usually 20°C) must exist between the temperature of your liquid and the HDT of the resin. It should also be noted that the aggressiveness of many chemicals increases as temperature increases.

Pressure or Vacuum

Tanks are typically manufactured for hydrostatic loading only and should not be subjected to pressure or vacuum.

Installation Environment

Tanks are generally designed for external installation at ground level in a non hazardous environment. They must be fully supported across their entire base area, (refer separate installation sheet for details). If your tank is to be inside or close to a building, elevated above ground level, partially or totally buried, located in a traffic area or any other situation which increases the level of hazard, you should advise us so that an additional safety factor can be applied.

Additional Hazards

Areas of high wind, cyclone susceptibility or seismic activity are the most common additional hazards, however flooding, soil subsidence, feral animals, caustic cleaning solutions and many other factors can play a part. You are the best judge of the hazards in your environment, so please inform us as we can't provide for something we don't know about.