

## What is the specific gravity?





Water is used as a reference body for the density of liquids and solids.  
For reference, the specific gravity of water is 1.0 at 4°C

**When it is said that the tank has a specific gravity of 1.5 for example, this means that it can contain a liquid which has a maximum density of 1.5 at 22 ° C.**

- The specific gravity of a liquid is always measured at 22 ° C.
- If the density of the liquid is greater than that of the tank, the walls of the tank will swell and could yield under pressure.
- As the temperature of a liquid increase, the molecules of the fluid move apart and the density decreases. If the temperature drops, the density of the liquid increases.
- Use a tank with an sufficient relative density for the temperature variations of use.
- Depending on the model of the tank, the specific gravity is 1.5, 1.7, 1.9 or 2.0. For specific needs, we offer 2.2 on request.

## Conversion Chart of Specific Gravity

Specific gravity	Liquid weight at 22 ° C	Reference with water	Comments
1.0	8.34 lb / US Gallon	Relative density of water = 1.0  1 US Gallon = 8.34 lb 3.79 litres = 8.34 lb	<i>Specific gravity is the ratio of the chemical weight per US gallon divided by the weight of water per US gallon (8.33 lbs/US gal.). For example, if a chemical weighs 10 pounds per US gallon, the specific gravity of the chemical is 10/8.33 = 1.2.</i>  Provide a tank of adequate density if you plan to use it in conditions where the ambient temperature is variable and uncontrolled, so if it exceeds or drops below 22°C, or if the liquid contained is heated or cooled.  ** Relative density or specific gravity is a dimensionless quantity, as it is the ratio of density or weights
1.5	12.50 lb / US Gallon		
1.7	14.16 lb / US Gallon		
1.9	15.83 lb / US Gallon		
2.0	16.66 lb / US Gallon		
2.2	18.32 lb / US Gallon		

Maximum liquid temperature	Minimum liquid temperature	U-V Exposure
The tanks may contain continuous liquid at a maximum temperature of 49 °C / 120 °F. 	The minimum temperature is just above that of the liquid freezing point. The tanks can crack if a liquid freezes inside. 	All tanks are sealed with a UV inhibitor to prevent the plastic from cracking during outdoor use. 