



Understanding Pool Water Balance: The Foundation of a Healthy Pool

Pool water balance is the foundation of every well-maintained swimming pool.

It's not just about keeping water clear—it's about protecting your pool surface, maximising equipment life, ensuring swimmer comfort, and avoiding costly chemical overuse.

Whether your pool is finished with plaster, fiberglass, paint, tiles or vinyl, maintaining balanced water is essential to preserving its condition and appearance over time.

At the heart of water balance is the **Langelier Saturation Index (LSI)**—a scientific tool that helps predict whether your pool water will be corrosive or scale-forming, or in balance. Rather than chasing isolated chemical targets (like pH, Alkalinity, or Calcium hardness), LSI takes a holistic view, considering Temperature and Total Dissolved Solids (TDS) as well. Ideally, your pool should have an LSI reading between **-0.3 and +0.3**. Within this range, the water is “saturated” and won't aggressively attack surfaces or deposit excess scale.

Your pool's surface plays a major role in how water chemistry behaves. **Plaster** (Pebblecrete, Marblesheen or Quartzon style) **Pools** are porous and interact directly with the water—meaning poor balance can lead to etching, roughness, or calcium leaching. **Fibreglass, Tiled, and Painted Pools**, on the other hand, are smoother and less reactive, but still benefit from proper balance to avoid staining or gel coat damage. **Vinyl-lined pools** require their own considerations, as certain chemical imbalances can cause fading or liner wrinkling.

Water disinfection methods also affect water balance and maintenance needs. **Traditional chlorine systems** are widely used and effective but can require frequent dosing and stabiliser control. **Saltwater chlorinators** convert salt into chlorine automatically, offering convenience and softer-feeling water, but can still be harsh on surfaces if the water isn't properly balanced. **Magnesium-based systems**—often marketed as mineral

pools—are gentler on skin and eyes, though they still require the same attention to LSI and water parameters to avoid corrosion or scaling.

The good news? Once you understand and manage your water balance properly, **you'll spend less money over time**. Balanced water means fewer chemical corrections, longer-lasting pool surfaces and equipment, and fewer problems to troubleshoot. It also means a more enjoyable swimming experience for you and your family.

In short, pool water balance isn't just a technical topic—it's the smartest and most cost-effective way to protect your investment. By using LSI as your guide and tailoring your care to your pool's surface and sanitation system, you're not only preserving your pool—you're making every swim healthier, cleaner, and more rewarding.

Now check out the other subjects inside “Resources” to get answers to your needs and save more, swim more and enjoy more!

