



## Pool Salt

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## The Benefits of Morton® Pool Salt

Morton® Pool Salt is a high purity and fast dissolving solar salt designed for use in swimming pools that are equipped with Salt Chlorine Generator or automatic sanitizer systems. It contains no additives (YPS). This product helps maintain a clean, safe pool environment, reduce maintenance and eliminate chemical odors.

### Salt Chlorine Generation Process

When salt is dissolved in pool water and subjected to electrolysis, the chloride portion of the salt is transformed into chlorine. Chlorine dissolves in the water to form hypochlorous acid. The acid performs the same functions as conventional "Pool Chlorine" in oxidizing bacteria, algae, mildew, etc.

Salt chlorinator systems generate free chlorine that destroys odors and irritating chloramines as the water passes through the electrolytic cell. Chloramines are responsible for the chlorine odor, red-irritated eyes, bleached hair and ruined bathing suits that are associated with traditional chlorination chemicals.

### Salt Chlorine Generator Benefits

Chlorine is an agent to disinfect water and is necessary for safe usage of recreational water (swimming pools). Chlorine residual is necessary so that it may instantly react to kill disease causing organisms and oxidize bacteria, algae, ammonia and other organic matter (swimmer waste) that may be introduced into the pool.

After purchase and installation of an in-line chlorine generator, you simply add Morton® Pool Salt to the swimming pool and sodium hypochlorite (free chlorine) is produced automatically by electrolysis of the water.

By using Morton® Pool Salt in Salt Chlorine Generator, you can obtain these benefits:

- Eliminates the need to handle and store hazardous chlorine containing chemicals
- System produces chlorine at a lower cost than liquid chlorine (bleach)
- These systems operate at "break point" and automatically generating chlorine on demand. Thus ensuring there is always sufficient chlorine in the pool water to remain sanitized
- Sufficient chlorine oxidizes chloramines, and as a result, there is no more chlorine smell, dryness, itchy skin, red eyes, green hair and bleaching of bathing suits

In summary, it's a convenient, simple and safe way to disinfect water, producing high quality pool water with reduced maintenance.

### How much Morton® Pool Salt should I use?

Most Salt Chlorine Generator units recommend a salt level of 3,200 ppm NaCl, but some units operate at higher levels. Considerable amounts of salt are added to the pool prior to start-up (e.g. 530 lbs for a 20,000 gallon pool) and free chlorine is produced. After oxidation of bacteria and other reductants, the chlorine reverts back to chloride ions to maintain the salt concentration in the pool. Top-off salt needs to be added when fresh water is added to the pool due to water losses from splash out, pump outs or filter backwashing. In northern climates, pools are usually drained and "winterized" at the end of the swimming season and new salt is necessary when the pool is re-filled the following spring.

### Salt Chlorine Generator Growing Trends

The market for salt chlorine generator systems or automatic sanitizer systems for swimming pools is growing at an exponential rate. In 2004, it is estimated that 50% of all new in-ground installations were equipped with this technology. Adding to the increase is the conversion of existing pools to the automatic sanitizer systems. The market growth, to-date, has been primarily with residential in-ground pools but it is likely that the technology will expand into commercial installations (condominium, hotel, municipal, etc.), and could eventually expand into "above ground" swimming pools, as lower prices and smaller units become available for purchase at large retail

outlets. Driving this growth are simplicity, safety and pool water quality. Prior to the advent of pool chlorinators, a pool owner only had undesirable options for adding chlorine to a pool.

Morton® Pool Salt optimizes performance of the chlorine generator and prevents staining of pool surfaces.

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