

Discover[®] **MIXTECH**

THE MOST SIGNIFICANT IMPROVEMENT IN A BATTERY IN 50 YEARS.

BEAT THE HEAT

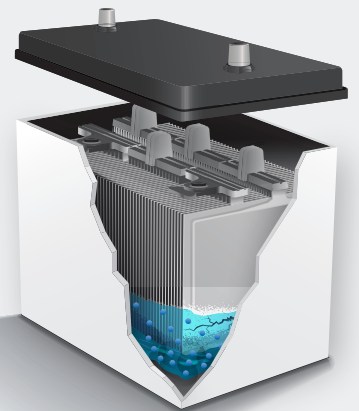
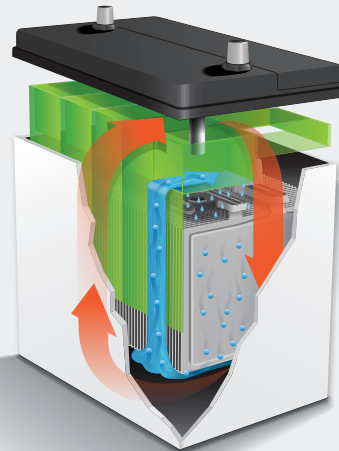
**MIXTECH TECHNOLOGY PREVENTS
EXTREME TEMPERATURES FROM
KILLING YOUR BATTERIES AND
EXTEND THEIR LIFE.**

Extreme temperatures significantly affect your battery's performance. MIXTECH decreases high temperature acid concentrations and dramatically improves battery life.

MIXTECH: BATTERIES REMIXED

MIXTECH BATTERY

The motion of your vehicle causes the electrolyte to circulate and continuously mix preventing acid stratification.



TRADITIONAL BATTERY

Without MIXTECH, acid in the electrolyte settles at the bottom which leads to excess corrosion and charge imbalance. This is known as acid stratification.

FACT: BATTERIES IN COMMERCIAL VEHICLES CAN REACH TEMPERATURES OF OVER 140°F / 60°C CAUSING EARLY BATTERY FAILURE.



THAT'S BAD. WE FIXED THAT.

Commercial vehicles are not going to stop traveling through extreme environments, and they won't decrease their demanding electrical loads or intense driving schedules. During the hot summer days, the drivers can't stop working and they can't prevent from running auxiliary loads and idling over hot roads for hours at a time and certainly can't change course to travel through more moderate climates.

Even if all that were possible, high internal battery box temperatures are occurring in cooler weather too, as the desire for improved fuel economy and reduced emissions has lead to aerodynamic enhancements that redirect airflow over and around the vehicle instead of through the engine compartment, along the frame rails or past the battery boxes.

These rising operating temperatures significantly affect your battery's performance and life. For every 10° increase in temperature above 77°F/25°C the chemical reaction inside your battery will approximately double cutting battery life in half*. Under extreme climatic conditions such as in the southern United States, Australia and the Mideast, batteries regularly reach a service life of just 6 to 10 months.

MIXTECH batteries utilize patented acid mixing technology to virtually eliminate the high temperature acid concentrations that accelerate internal plate corrosion, battery dry-out, premature capacity loss and battery failure. This achieves up to 4x the micro-cycle life when compared with conventional batteries without countermeasure against acid stratification.

**Arrhenius' Law*



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