

Discover® MIXTECH

THE #1 CAUSE OF BATTERY FAILURE IS ACID STRATIFICATION.

THAT'S BAD. WE FIXED THAT.

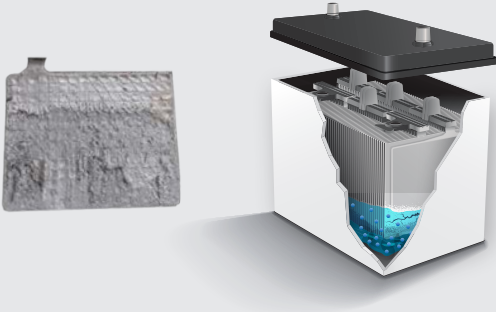


THE MOST SIGNIFICANT IMPROVEMENT IN A BATTERY IN 50 YEARS.

MIXTECH PREVENTS ACID BUILD UP FROM KILLING YOUR BATTERIES AND CAN EXTEND THEIR LIFE BY UP TO 4x.

TRADITIONAL BATTERY

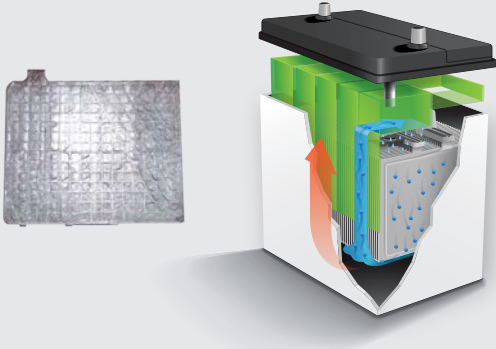
Without MIXTECH, acid in the electrolyte settles at the bottom which leads to excess corrosion and charge imbalance. This is known as acid stratification.



WHAT IS MIXTECH?

MIXTECH BATTERY

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



MIXTECH Technology eliminates symptoms related to acid build up. The patented 360° acid mixing achieves 100% homogeneous specific gravity at twice the effectiveness, and in less than half the time of pump action mixing elements.

MIXTECH^{EFB}

ENHANCED FLOODED BATTERY

3x
STANDARD
LIFE CYCLE

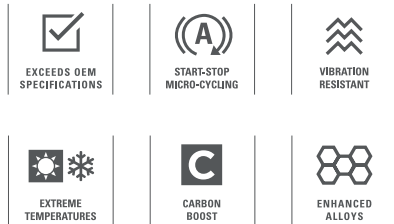


The latest EFB breakthroughs in lead alloys and carbon additives.

Maintains dynamic charge acceptance better than conventional or EFB batteries without 360° acid mixing.

3x the cycle life of comparable conventional batteries (Figure 1).

Supports micro-cycling applications that operate at a partial state of charge and that don't require the deep cycling characteristics of MIXTECH EGM batteries.



MIXTECH^{EMX}

PREMIUM FLOODED BATTERY

2x
STANDARD
LIFE CYCLE



Expanded metal grids and advanced active materials produce premium batteries for most conventional modern vehicles equipped with standard accessories.

2x the cycle life of comparable conventional batteries and 1.5x the life of replacement market EFB batteries (Figure 1).

Can be used to replace original equipment EFB and AGM batteries.



Compare - MIXTECH Advantage

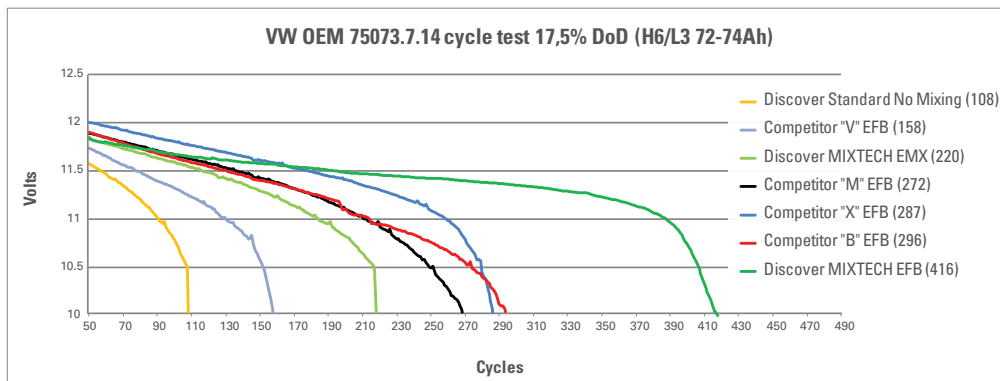


Figure 1

MIXTECH^{EGM}

ENHANCED GLASS MAT FLOODED BATTERY

4x
STANDARD
LIFE CYCLE



360° acid mixing technology produces superior EGM batteries without the same dry-out and thermal runaway risks associated with AGM batteries.

Eliminates acid build up that prematurely destroys battery capacity and life.

Increases material utilization providing superior sustained performance and increased life.

Decreases thermal gradients dramatically improving life in extreme temperature operation.

Highly compressed anchor bonded plate groups **improve vibration and shock resistance.**

Maintains high dynamic charge acceptance reducing alternator wear and fuel costs.

Enveloped + Glass Mat separators reduce plate shedding and provide three times the cyclic stability and ten times the vibration resistance of a standard battery.



EXCEEDS OEM
SPECIFICATIONS



START-STOP
MICRO-CYCLING



VIBRATION
RESISTANT



EXTREME
TEMPERATURES



CARBON
BOOST



ENHANCED
ALLOYS



GLASS
MAT



HOTEL
LOADS

Benefits & Features



EXCEEDS OEM SPECIFICATIONS

MIXTECH batteries meet or exceed Original Equipment Manufacturers performance and quality requirements.



START-STOP MICRO-CYCLING

MIXTECH supports the micro-cycling and partial State of Charge use typical of long urban commutes and in start-stop and anti-idle vehicles.



VIBRATION RESISTANT

Element bonding resists positive plate growth and reduces vibration related failures.



VIBRATION RESISTANT

Element and anchor bonding of cell groups, in addition to MIXTECH XVR components, lock cell connectors and plates in place providing Super Heavy Duty (SHD) vibration and shock resistance.



EXTREME TEMPERATURES

360° acid mixing eliminates thermal gradients and improves life at extreme temperatures.



CARBON BOOST

MIXTECH with Carbon additives maintain Dynamic Charge Acceptance at a level 3.5x greater than conventional or EFB batteries, reducing alternator wear and tear.



ENHANCED ALLOYS

Silver Calcium High Capacity grids with enhanced additives resist corrosion and maximize SHD high cycle and starting performance.



GLASS MAT

Compressed cell design with enveloped + AGM separators reduce plate shedding, provide cycling stability and improve vibration resistance.



HOTEL LOADS

Suitable for High Cycle use in highly equipped vehicles with intense driving schedules.

Discover®

Innovative Battery Solutions

discovermixtech.com

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