



New LifeMat™ glass non-woven solutions for lead-acid batteries

Today, increasing amounts of electronic equipment and new technologies such as micro-hybrid vehicle configurations, are placing increasing demands on the performance of automobile batteries.

Among solutions, stop-start engine systems cut fuel consumption and CO2 emissions by temporarily shutting off during idling, and then restarting the engine upon acceleration.

Forecasts for 2015 are skyrocketing

While there is a wide variety of micro-hybrid vehicle configurations, the sales forecasts for 2015 may reach 25-35 million units; i.e. 37% of the new passenger vehicles sold throughout the world, with 64% for Europe (most stringent environmental regulations), similar to

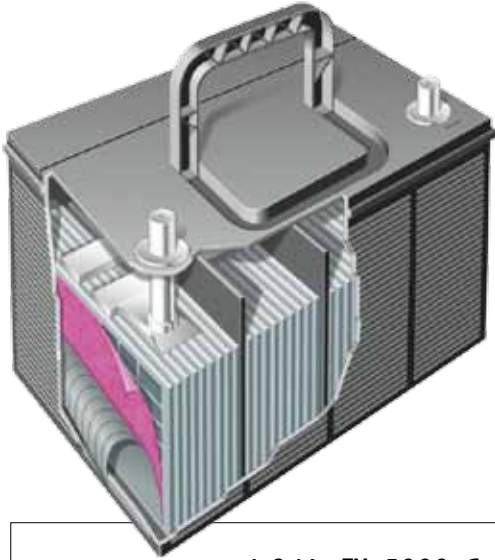
Japan, or 48% for China (Lux Research report, October 2010; LRPI-R-10-6).

Improved performance of flooded lead-acid batteries

With more than 30 years proven experience, Owens Corning is a leading provider of wet laid glass non-woven solutions, widely known for its quality retainer mat solutions for heavy duty and deep cycle batteries.

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(Contd)



The new branded LifeMat™ pasting mat helps battery manufacturers improve the performance and lifespan of flooded lead-acid batteries for stop-start engines.

“LifeMat™ glass non-wovens is an effective solution for heavy-duty batteries such as those used in vehicles that make frequent stops, or delivery or service vehicles, as well as cars with automatic start&stop systems during city driving”

explains Ralph Jousten, Business Development Leader, Vehicle Components, Owens Corning.

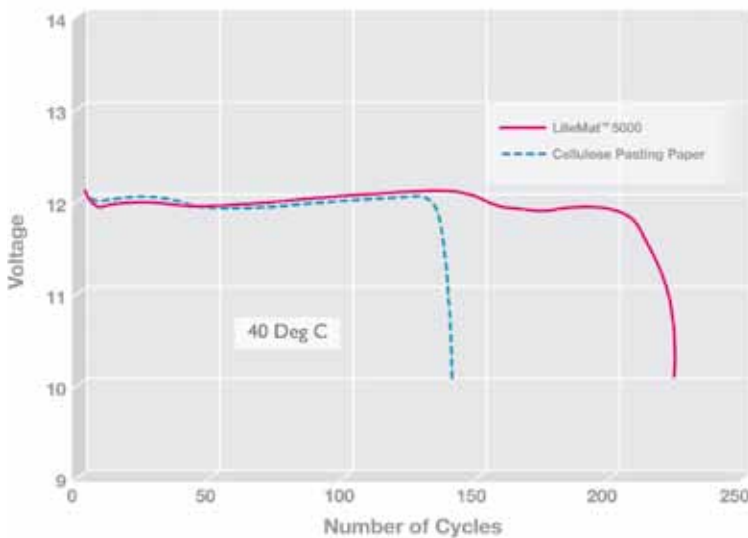
LifeMat™ pasting mat requires no capital investment

“The glass fiber nonwoven is applied directly to the face of the electrode during continuous plate production” continues Jousten. “LifeMat™ pasting mat has high wet tensile strength and, unlike conventional pasting papers, does not dissolve during the formation process, thereby reinforcing the plate throughout the life of the battery and making it also the pasting mat of choice for dry charged batteries.”

Owens Corning continues to invest in its technical capabilities and its commercial network to support the growing need for glass nonwovens world-wide. Operations in America, Europe and slitting operation in India enable short lead times.

LifeMat™
+40%
improvement

LifeMat™ 5000: Cycling at 50% depth of discharge in a VDA endurance test



- LifeMat™ pasting mat has been designed to support the need to improve cycling performance of flooded lead-acid car batteries at partial state of charge whilst maintaining a low internal resistance, such as required for start & stop systems.
- The mat provides cost advantages over AGM (absorbed glass mat) battery types that produce more cycles but are priced much higher and are more sensitive to heat and overcharging than flooded lead-acid batteries.

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