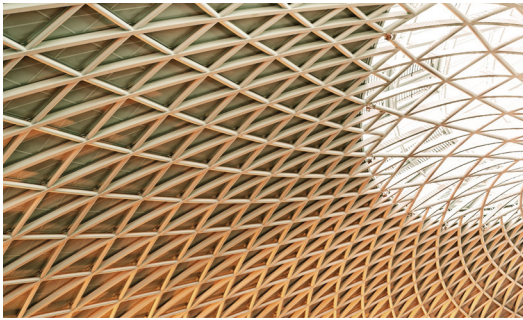




# **LIFEMAT<sup>®</sup>** **NON-WOVEN SOLUTIONS**

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**FOR LEAD ACID BATTERIES**



## OUR CURIOSITY FUELS YOUR POSSIBILITY

Strong, lightweight, and versatile. Owens Corning composite solutions have transformed industries. From construction to transportation to energy – there's no telling where our next innovation will reach.

We aren't just a world leader in glass science; we innovate productivity, performance, durability, and design flexibility. Our influential innovations are a powerful combination of understanding emerging needs and responsibly creating next-generation solutions.

Advances in glass-based technical fabrics provide a full range of woven, knitted, and non-woven technologies to the global composites industry. A powerful combination of expertise in glass science and state-of-the-art facilities empowers our team to partner with customers for development of glass-specific, custom technical fabric products. Supported by a worldwide manufacturing platform that spans three dozen manufacturing facilities and research and development centers, we deliver locally engineered, customized solutions.



FURNACE &  
GLASS SCIENCE



INNOVATIVE  
CHEMISTRY



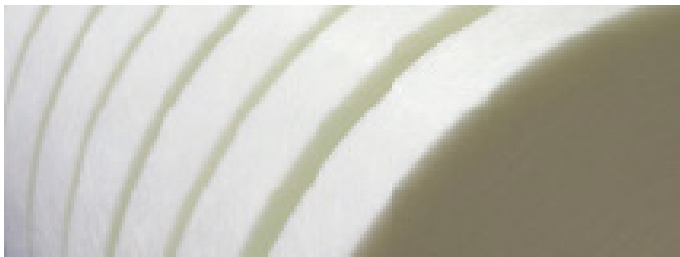
NONWOVEN  
SOLUTIONS



GLOBAL  
PLATFORM

### Characteristics of LifeMat®

- Advantex E-CR (corrosion-resistant) glass technology
- Excellent oxidation resistance at high temperature and high purity
- Homogenous thickness and porosity
- Low electrical resistance



### Benefits of LifeMat® in lead acid battery applications:

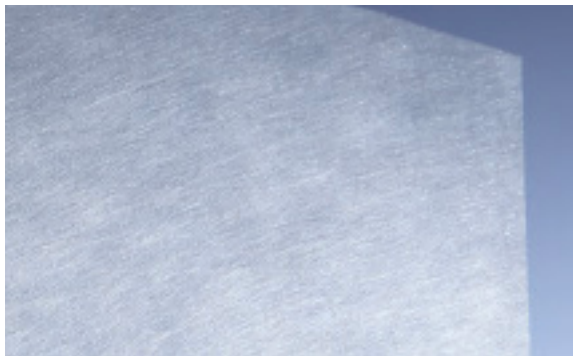
#### LifeMat® – Retainer mat

- Prevents positive active mass shedding, extending battery life
- Wets out instantaneously
- Increases vibration resistance
- Protects the separator from oxidation
- Proven performance for more than 25 years

#### LifeMat® – Pasting mat

- Prevents positive active mass shedding, extending battery life
- Does not dissolve
- Reinforces the plate
- Maintains compression
- Can be processed on existing continuous pasting lines
- Easy to cut



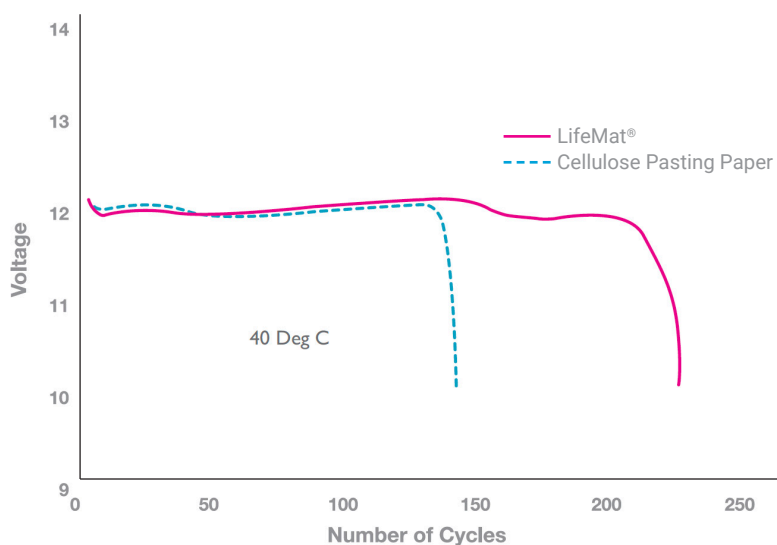


## LifeMat® product range:

PRODUCTS	CHARACTERISTICS
<b>Retainer LifeMat®</b>	Thickness range: 0.20–0.91 mm
<b>Pasting LifeMat®</b>	Thickness range: 0.13–0.19 mm

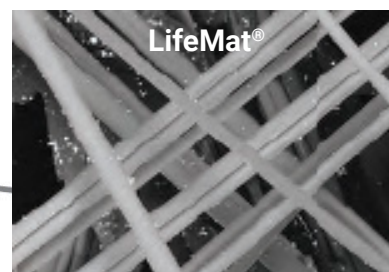
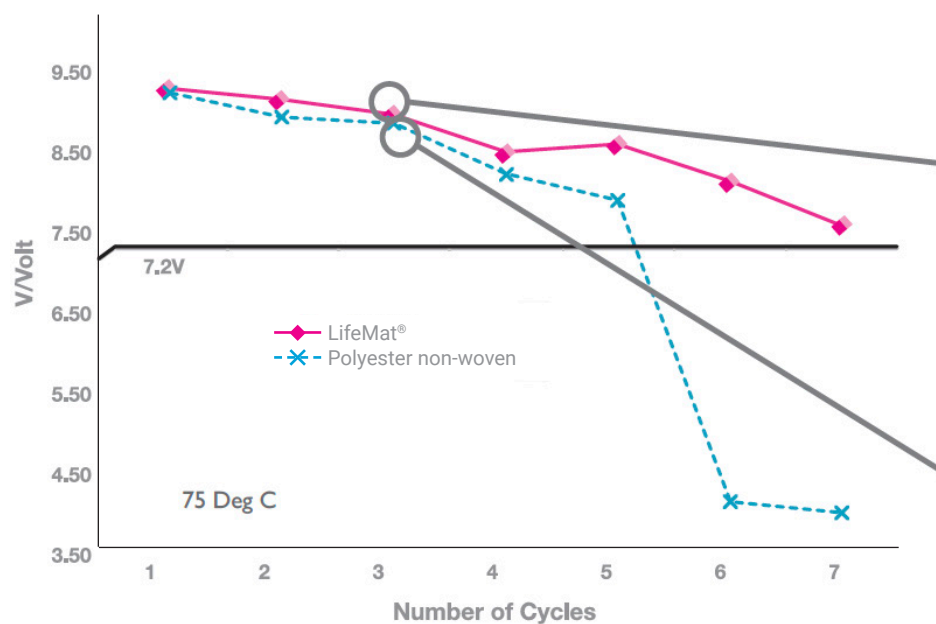
## LifeMat®

Cycling at 50% depth of discharge in a VDA endurance test



LifeMat®  
**+40%**  
improvement

## Comparing LifeMat® vs. polyester non-woven in a J240 overcharge test





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