

The best-selling synthetic composite AGM separator

EnergyGuard® is a high-strength, synthetic-composite separator for VRLA batteries. Its unique composition blends the best properties of glass microfiber with the added strength of synthetic fiber. EnergyGuard is the best-selling composite AGM separator in the world.

When to use EnergyGuard



High-Speed Manufacturing

EnergyGuard is optimized for highspeed, automated production. With superior tensile strength and high puncture resistance, EnergyGuard can improve processing throughput and reduce scrap rates. Its enhanced toughness helps prevent tears in wrapping and ensures smooth processing. The separator also protects against punctures from inconsistent plate surfaces, resulting in fewer shorts and cell rejects.



High-Vibration Environments

For demanding field applications such as automotive SLI, off-road, sport, motorcycle, and long-haul trucking, EnergyGuard will outlast glass separators. The separator's resiliency holds off the familiar failure modes caused by sustained vibration. Internal structural bonding and surface puncture resistance keep batteries performing longer.



Deeper-Cycling & Longer-Life Needs

The synthetic fibers in EnergyGuard impart high elasticity and excellent compression recovery. This keeps the internal pressure high throughout the expansion and contraction in battery cycling. EnergyGuard is better engineered for this challenge, helping sustain strong plate contact even in deep cycles. This extends performance in today's energydemanding vehicles.





Why use EnergyGuard?

Buy a more robust separator with EnergyGuard. This glass/synthetic hybrid improves the most crucial properties for manufacturing and performance.

Tensile Strength

Proprietary synthetic fibers impart a bonded internal structure, greatly improving the separator's tensile properties.

Puncture Resistance

The network of synthetic fibers reinforces the surface strength, dramatically increasing puncture resistance.

Compression Recovery

Bonding between fibers reduces the fiber slippage in compression. The separator can store elastic energy and rebound when compression is relaxed.

200%

IMPROVEMENT OVER GLASS MAT

EnergyGuard

8.9 lb/in*

100% Glass Mat **4.4 lb/in***

300%
IMPROVEMENT

OVER GLASS MAT

EnergyGuard

1.2 kg*

100% Glass Mat **0.4 kg***

170%
IMPROVEMENT
OVER GLASS MAT

EnergyGuard

93%*

100% Glass Mat 88%*

To learn more, visit www.hollingsworth-vose.com or e-mail info@hovo.com.



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^{*} All product data and statements are indicative of typical properties and characteristics obtainable for 300 g/m^2 basis weight separator. H&V makes no representation or warranty except as otherwise agreed to in writing between the parties.