



SERIES 01 / 07

Automotive Start-Stop AGM Separator

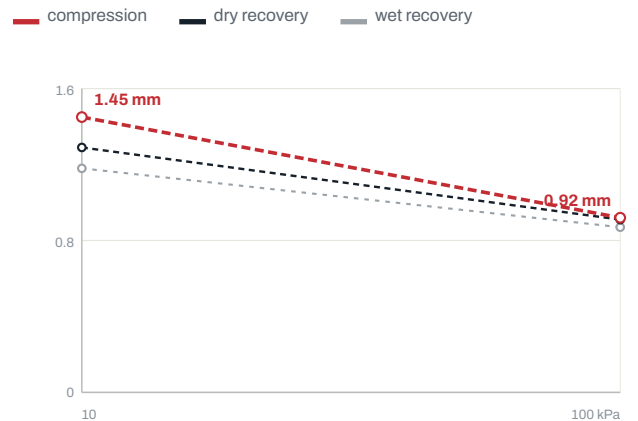
Dual fiber-diameter AGM separator for start-stop batteries under high vibration and deep cycling.

AGM separators for automotive start-stop batteries, where frequent engine restarts, partial state-of-charge cycling and constant vibration place substantial mechanical demands on the separator.

TECHNICAL DATA

Thickness range @10 kPa	0.8-2.5 mm
Density	160 g/m ² ·mm
Avg. fiber diameter 1 · fine matrix	1.0-3.0 μm
Avg. fiber diameter 2 · reinforcement	5.0-10.0 μm
Specific surface area (BET) · design target	≥ 1.6 m ² /g
Avg. beating degree · design target	≥ 35 °SR

CATALOGUE ENDPOINTS · 10 / 100 kPa



Endpoint thicknesses transcribed from the printed catalogue at 10 and 100 kPa. Straight connectors are visual guides only; no intermediate measurements are implied.

KEY CHARACTERISTICS

- Stable float performance and reliable high-current discharge
- Strong resistance to electrolyte stratification
- Puncture resistance increased by over 100%
- Wet tensile strength increased by 103%
- High porosity for strong electrolyte retention
- High wet strength to maintain plate-group compression
- Tenacity increased by over 200% for high-vibration duty
- High mechanical strength for high-speed automated assembly

DESCRIPTION

Our start-stop series uses a dual fiber-diameter construction: a fine glass microfiber matrix provides electrolyte retention and surface area, while a coarser fiber fraction adds mechanical strength. The resulting separator withstands high-speed automated enveloping and helps maintain plate-group compression throughout the battery's cycle life.

Compared with conventional AGM constructions, the series has over 200% higher tenacity, over 100% higher puncture resistance and 103% higher wet tensile strength, reducing the risk of dendrite short circuits and assembly damage. A non-wetting fraction of around 10% helps preserve oxygen-recombination pathways under saturation.

IATF 16949:2016

ISO 9001 · SINCE 2002

ISO 14001 / 45001

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