

Ahlstrom–Munksjö  
**FortiCell**<sup>®</sup> LAB

## AGM Media

### Fiber-based Solutions for Energy Storage

A **Lead Acid Battery** is an essential element for your car to start, for a forklift to efficiently pick up goods without losing time for recharging and for a data-center to always be functioning efficiently.

The **Absorbed Glass Mat** is a separator made of microglass. The functions of the separator are:

- To allow hydrogen ions to go from the anode to the cathode with the minimum resistance
- To “store” hydrogen ions when the battery is not in use to allow a rapid restart
- To prevent anode and cathode to be in contact

#### Benefits

- ✓ **Excellent product uniformity** – for homogeneous ions transfer
- ✓ **Excellent fiber selection and dispersion** – state-of-the-art for even specific surface area (BET)
- ✓ **Enhanced Battery Cycle Life** – delivered through good dry compression recovery, producing less vibrations as well as reducing electrode decay
- ✓ **Superior manufacturing efficiency** – due to excellent wicking properties
- ✓ **Maximised performance** – due to minimum ionic contamination

## AGM Separator range overview

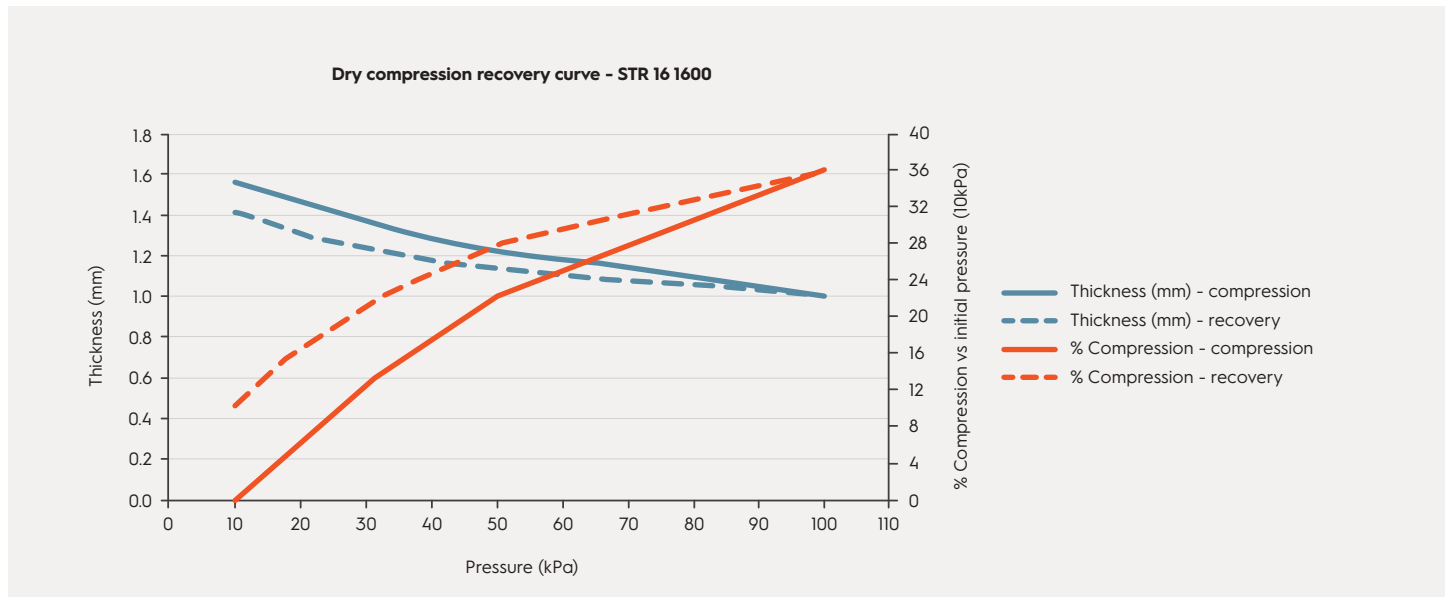
We have developed a wide range of AGM materials suited for your needs and your customer applications. Our offering is based on three typical characteristics required to manufacture proper separators:

- **Specific surface area: BET from 1.1 to 2**
- **3 distinctive levels of strength and flexibility**
- **Adapted thickness to your requirement**

	Basis weight	Thickness	Textest	Tensile strength MD	Elongation MD	Tensile strength CD	Elongation CD	Acid wicking	Specific surface (BET)
Grades	g/m <sup>2</sup>	mm (10kPa)	l/m <sup>2</sup> /s (200Pa)	KN/m	%	KN/m	%	mm/2min	m <sup>2</sup> /g
<b>SUP 13 0500</b>	80	0.5	86	0.32	1.3	0.17	2.2	60	1.3
<b>SUP 13 0800</b>	130	0.8	50	0.5	1.2	0.41	1.9	61	1.3
<b>STR 145 1450</b>	209	1.45	29	0.705	1.8	0.41	2.5	67	1.45
<b>STR 16 1600</b>	225	1.6	25	0.85	1.9	0.76	1.9	63	1.6
<b>STR 13 1600</b>	225	1.6	34	0.6	2	0.59	2.5	65	1.3
<b>STR 17 1600</b>	230	1.6	18	1.2	1.6	0.95	2.1	63	1.7
<b>STR 20 1700</b>	225	1.7	14	1.1	2	0.92	3.38	44	2
<b>STR 11 1600</b>	230	1.6	50	0.6	2	0.40	2.58	64	1.1
<b>STR 16 2600</b>	340	2.6	15	0.88	2	0.7	1.6	57	1.6

Non exhaustive offering. We develop tailor-made solutions based on specific customer needs.

## MicroGlass Media for AGM Separator – Illustration of good dry compression recovery



## Ahlstrom-Munksjö AGM Manufacturing Platforms

- **Fabriano, Italy**
- **Turin, Italy Q1 2022**

Contact Ahlstrom-Munksjö Sales: ✉ [forticell@ahlstrom-munksjo.com](mailto:forticell@ahlstrom-munksjo.com)

[www.ahlstrom-munksjo.com](http://www.ahlstrom-munksjo.com)



Disclaimer: The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitation any warranty of merchantability of fitness for use. All users of the material are responsible for ensuring that it is suitable for their needs, environment and end use. All data is subject to change as Ahlstrom-Munksjö deems appropriate.