

AGM Media

Fiber-based Solutions for Energy Storage

AGM Lead-Acid Batteries provide a number of advantages over flooded batteries, e.g. deep discharge, high cyclability without capacity loss. AGM Batteries are virtually maintenance free. Usages range from Automotive Start-Stop to over the entire range of Industrial Applications. Contrary to flooded lead-acid-batteries Absorbent Glass Mat (AGM) materials are used as Separator, where the acid is absorbed within the picro-Glass Matt.

Ahlstrom's product portfolio includes a wide range of different Absorbent Glass Mat materials to meet the requirement of all applications. Our new state-of-the-art production line is capable to handle all market demands. Additionally, custom-type grades are available upon request.

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 are offering a wide range of AGM materials, suited for your needs and requirements. In Spring 2022 our state-of-the-art production new line was put into operation. Our standard capabilities include:

- **Thickness** 0,4 2,6 mm
- Specific Surface Area (BET) 0,8 2,0 m²/g
- Compositions 100 % µ-glass, optional addition of polymeric and/or chopped strand fibers

Examples of available grades:

	Basis weight	Thickness	Air permeability	Tensile strength MD	Elongation MD	Tensile strength CD	Elongation CD	Acid wicking	Specific surface area (BET)
Grades	g/m²	mm (10kPa)	I/m²/s (200Pa)	KN/m	%	KN/m	%	mm/2min	m²/g
SUP 13 0500	80	0.5	86	0.32	1.3	0.17	2.2	60	1.3
SUP 13 0800	130	0.8	50	0.5	1.2	0.41	1.9	61	1.3
STR 145 1450	209	1.45	29	0.705	18	0.41	2.5	67	1.45
STR 16 1600	225	1.6	25	0.85	1.9	0.76	1.9	63	1.6
STR 13 1600	225	1.6	34	0.6	2	0.59	2.5	65	1.3
STR 17 1600	230	1.6	18	1.2	1.6	0.95	2.1	63	1.7
STR 20 1700	225	1.7	14	1.1	2	0.92	3.38	44	2
STR 11 1600	230	1.6	50	0.6	2	0.40	2.58	64	1.1
STR 16 2600	340	2.6	15	0.88	2	0.7	1.6	57	1.6

The above table is non exhaustive to our full portfolio. Tailer-made grades are available upon request. Properties may vary depending on source of production.



SEM of AGM Separator

Ahlstrom Manufacturing Platforms

Fabriano and Turin, Italy for AGM separator

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