



# Ahlstrom **FortiCell**<sup>®</sup> LEAD ACID BATTERY

## Pasting Materials

Fiber-based Solutions for Energy Storage

**Lead Acid Batteries** require long lifetime under changing environments. Applying Pasting Materials onto the pasted lead plates helps to meet these requirements. Different batteries and applications require different pasting materials. The pasting process also protects the environment and the workers' health.

Ahlstrom is a global leader in fiber-based solutions. We offer a complete portfolio of pasting materials, matching every market's needs. Ahlstrom is a one-stop shop of the most advanced battery materials.

### Benefits

Ahlstrom's technology platforms offer solutions for all pasting applications:

- ✓ **Enhancing battery lifetime** by supporting adhesion of the active mass to the plate
- ✓ **Allowing high speed processing** with no paste bleed through the material
- ✓ **High uniformity** of fiber distribution
- ✓ **Allow rapid battery filling** and low electric resistance by selection of raw material
- ✓ **Protecting the environment** and the work force during the battery production

**CELLULOSE PASTING:** a lightweight cellulose media with high purity and a perfect balance of key properties for all lead-acid battery manufacturers e.g., grade CD39016F.

**GLASS REINFORCEMENT MAT:** a glass fiber mat with a unique highly acid stable binder specially designed for increased performance in heavy duty and truck batteries e.g., grade GEC-592K13C-24.

**MICRO-GLASS PASTING:** a microfiber glass media available as pure micro glass or a combination of micro glass and polymeric fiber to target improved battery performance and higher strength mainly for AGM and industrial batteries e.g., grade STR 20 0180.

**HYBRID PASTING:** a uniform, unique single layer material from a combination of natural and synthetic fibers. Superior processability targeted for EFB and AGM batteries e.g., grade SD7252023.

## Key Pasting Material Grades Characteristics

		Weight	Thickness	Dry tensile MD	Dry tensile CD	Air permeability	Acid wicking
Grades	Description	g/m <sup>2</sup>	µm (100kPa)	N/m	N/m	L/m <sup>2</sup> /s	mm/2min
CD39016F	Cellulose pasting	13	50	750	220	1700	20
GEC-592K13C-24	Glass reinforcement mat	24	230	1400	1600	10500	N/A
STR 20 018	Micro-glass pasting	35	220	300	90	80	55
SD7252023	Hybrid pasting	23	125	1600	900	1800	N/A

We develop tailor-made solutions based on specific customer needs

## Ahlstrom Pasting Materials Global Manufacturing Platforms

**Chirnside, United Kingdom** for cellulose pasting paper

**Turin, Italy** for micro-glass materials and AGM separator

**Karhula, Finland** and **Madisonville, USA** for glass fiber mat materials

**Ställdalen, Sweden** for hybrid solutions

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