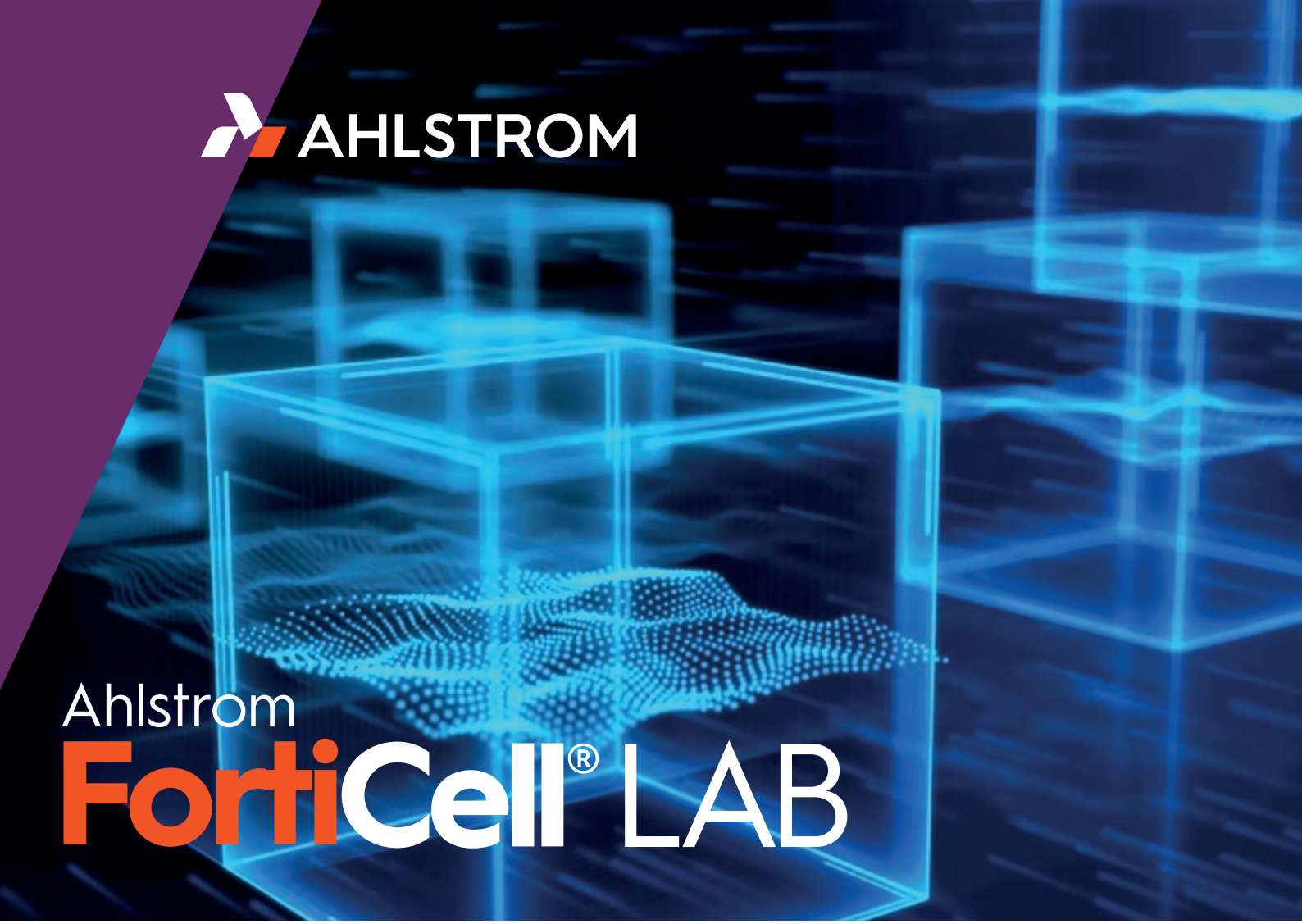

Pasting Materials

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. Ahlstrom offers solutions for all of these demanding requirements.

Pasting materials made from Cellulose, glass, µ-glass and Hybrid are available.

The pasting process also protects the environment and the workers' health.

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 for a green battery production

Pasting Material range overview

Ahlstrom is a global leader in fiber-based solutions. We have the capabilities to manufacture 100% cellulose paper, to 100% glass fiber materials, micro-glass and hybrid materials from a mix of cellulose and polymeric fibers.

Applications and typical grades:

- **SLI** – 100% Cellulose paper light weight pasting, e.g. Grade CD 039016F
- **EFB** – Hybrid material from a mix of Cellulose and polymeric fibers, e.g. Grade SD7251015
- **AGM** – µ-glass, e.g. Grade STR 20 0250
- **Heavy Duty** – 100% glass fiber tissue, e.g. 24 gsm, Grade GEC-592K13C-24

Pasting Materials: glass, cellulose and advanced media

	Weight	Thickness	Bulk	Dry tensile MD	Dry tensile CD	Air permeability	Acid wicking
Grades	**g/m^2**	**µm (100kPa)**	**cm^3/g**	**N/m**	**N/m**	**$L/m^2/s$**	**mm/2min**
CD39016F	13.0	49.5	3.69	665	219	1400	23
STR 20 0250	35	250	7.87	60	50	50	5
GEC-592K13C-24	24	290	12.08	2400	1600	8500	n/a
SD7251015	14.5	102	7.03	698	391	3733	TBD

Other grades available. We develop tailor-made solutions based on specific customer needs.

Ahlstrom Pasting Materials Manufacturing Platforms

Chirnside, Scotland for cellulose pasting paper

Turin, Italy for micro-glass materials and AGM separator

Karhula, Finland and Madisonville, USA for glass tissue materials

Ställdalen, Sweden for hybrid solutions

Ahlstrom is a global leader in innovative fiber-based materials in wetlaid and glass tissue.

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