

Company Profile

Advanced flame-retardant material technology

WHO WE ARE

Akusta Materials develops and commercializes advanced flame-retardant thermoplastic material solutions for applications where fire safety, processability and material performance must work together. The technology is of German origin and is designed for industrial processing routes including injection moulding, thermoforming, and sheet/film production with various surface coatings.

TECHNOLOGY Steam-releasing flame-retardant thermoplastic material platform.	APPLICATIONS Construction, electrical systems, mobility, battery protection and industrial components.	MARKET APPROACH Material supply, application development and customer-specific implementation support.
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WHAT WE DO

- Develop passive fire-protection solutions together with our customers, tailored to specific applications and performance requirements.
- Develop and position flame-retardant thermoplastic materials for flexible and rigid applications, and support customers in converting them into practical components using established plastics-processing methods.
- Provide technical data, independent test documentation and application guidance during qualification projects.
- Connect European material know-how with commercial and industrial networks in Asia, including dedicated sales activity in China.
- Work with strategic technology partners on high-safety applications, including battery and e-mobility related use cases.

CORE MATERIAL PLATFORM

Akusta materials use chemically bound water that is released as steam when exposed to high heat. The resulting cooling and thermal-barrier effect helps reduce heat transfer and slow flame spread. The material can be processed as a thermoplastic and is available in formulations for both soft/flexible and hard/rigid applications.

PRODUCT	TYPE	TYPICAL USE DIRECTION
ATH 70S	Soft / flexible	Wall panels, flexible interiors, cushioning and selected electrical applications
ATH 60H	Hard / rigid	Injection-molded housings, structural panels, façades and industrial protection components

WHERE WE OPERATE

Akusta Materials is positioned as an internationally oriented materials business with German technology roots and an active commercial network in Europe and Asia. China market development and sales are supported locally. Strategic application partnerships cover battery technology and wall panel solutions with passive fire protection, while selected manufacturing partners in Asia support industrial Akusta Plast sheet production.

PEOPLE & PARTNERS

A compact team combining entrepreneurship, materials technology, international sales and application-oriented engineering.

NAME / PARTNER	ROLE	FOCUS
Oliver Kern	Founder - Hong Kong	Business development, company building and international commercialization.
René Hermann	Founder - Germany	Commercial development, strategic growth and market positioning.
Uwe Stadter	Technology Inventor	Inventor and technical originator of the Akusta material technology.
Chelsea Wang	Sales - China	China sales, customer development and commercial coordination in the Chinese market.
Emetric	Strategic Partner Battery Technology	Battery-related applications and integration of Akusta fire-protection technology into advanced battery safety solutions.
recycleather	Strategic Partner Wall Panels with Passive Fire Protection	Silicone-leather-based wall panel and interior surface solutions incorporating Akusta passive fire-protection technology.
Selected Manufacturing Partners in Asia	Manufacturing Network Akusta Plast Sheets	Industrial sheet production to Akusta material specifications; manufacturing partners are disclosed during qualified customer projects where appropriate.

HOW WE WORK

1 Application Understand geometry, processing route and fire-safety target.	2 Material fit Select suitable Akusta formulation and thickness range.	3 Validation Support prototype, testing and technical qualification.	4 Scale-up Move toward industrial processing and commercial supply.
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MARKETS AND APPLICATION AREAS

Construction Wall panels, façades, fire barriers and protective layers.	Electrical & Electronics Housings, cable-related applications and molded components.	E-Mobility & Batteries Battery-adjacent protection concepts and high-safety components.
Transportation Fire-resistant material solutions for mobility and transport systems.	Industrial Protective components, housings and thermoplastic parts.	Interior Applications Flexible panels, cushioning, soft components and acoustic uses.

OUR POSITIONING

Akusta Materials integrates flame-retardant functionality directly into thermoplastic materials for standard industrial processing.

HEAD OFFICE & CONTACT

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