

The Synthomer Group

DELIVERING
GROWTH IN
SPECIALITY CHEMICALS

A Growing Supplier of Speciality Polymers



Leading global supplier of **water-based and differentiated polymers** with revenues of £2.0bn



International footprint in **Europe, North America & Asia**; 30+ manufacturing sites, 5 Innovation Centres



A strong track record of **organic growth and M&A**



ca. **4,200 employees** around the world



Headquartered in London (UK); founded in 1920, listed on London Stock Exchange in 1971



Our portfolio



Synthomer divisional structure

End-market focus

Product examples

Coatings & Construction Solutions



- Aqueous (acrylic & vinylic based) dispersions

- Speciality coatings
- Construction
- Fibre bonding
- Energy
- Speciality additives

- Binders and other polymer additives
- Well cementing
- Drilling fluid control additives
- Battery anode binders

Adhesive Solutions



- Tackifying resins
- Aqueous dispersions
- Lithene polybutadiene

- Tyres
- Hygiene
- Packaging
- Tapes & labels

- Pressure sensitive, contact and hot melt adhesives
- Sealants, wet glues and other tackifying resins and additives
- Rosin gums for a range of end uses

Health & Protection



- NB¹ rubber latex
- SB² rubber latex
- High solids SB rubber chemistry

- Additives for gloves
- Speciality paper coatings

- Raw material for medical and other latex gloves
- Binders for paper coating, carpet, foam

Performance Materials



- Chemical additives
- Non-aqueous based chemistry

- Polymer additives
- Inorganic additives
- Acrylate monomers³

- Inorganic (copper, iodine and tin-derived) additives (William Blythe)
- Heavy and light acrylate raw materials
- Polymer additives for rubber and plastic applications

Source: Company information

- 1) Nitrile Butadiene
- 2) Styrene Butadiene
- 3) Acrylate Monomers is its own sub-segment



WELLBORE SOLUTIONS

Base chemistries providing wellbore stability in drilling fluids and cementing applications



BATTERY MATERIALS

Commercial SBR latexes for current generation anodes
PAA for emerging silicon next generation anodes



EXPLORATORY INNOVATION

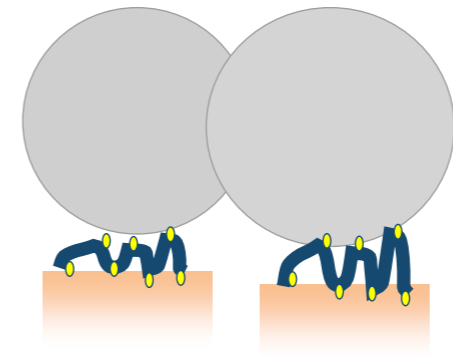
Carbon Capture, Utilization and Storage
Energy Storage
Battery materials beyond binders



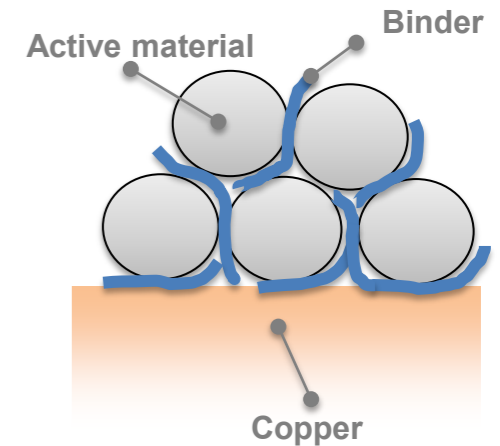
SBR – The Choice for Water-based Anodes

Why Styrene Butadiene Rubber?

- SBR gives excellent adhesion to copper and active material
- High slurry homogeneity, wettability and coating
- Efficiency of SBR binder enables high battery performance and capacity
- Mechanical properties suitable for graphite and silicon
- High total capacity and good capacity retention



Adhesion maintained during charging & discharging



LITEX™ LB – High Performance Binders





LITEX LB - High-performance SBR binders available now

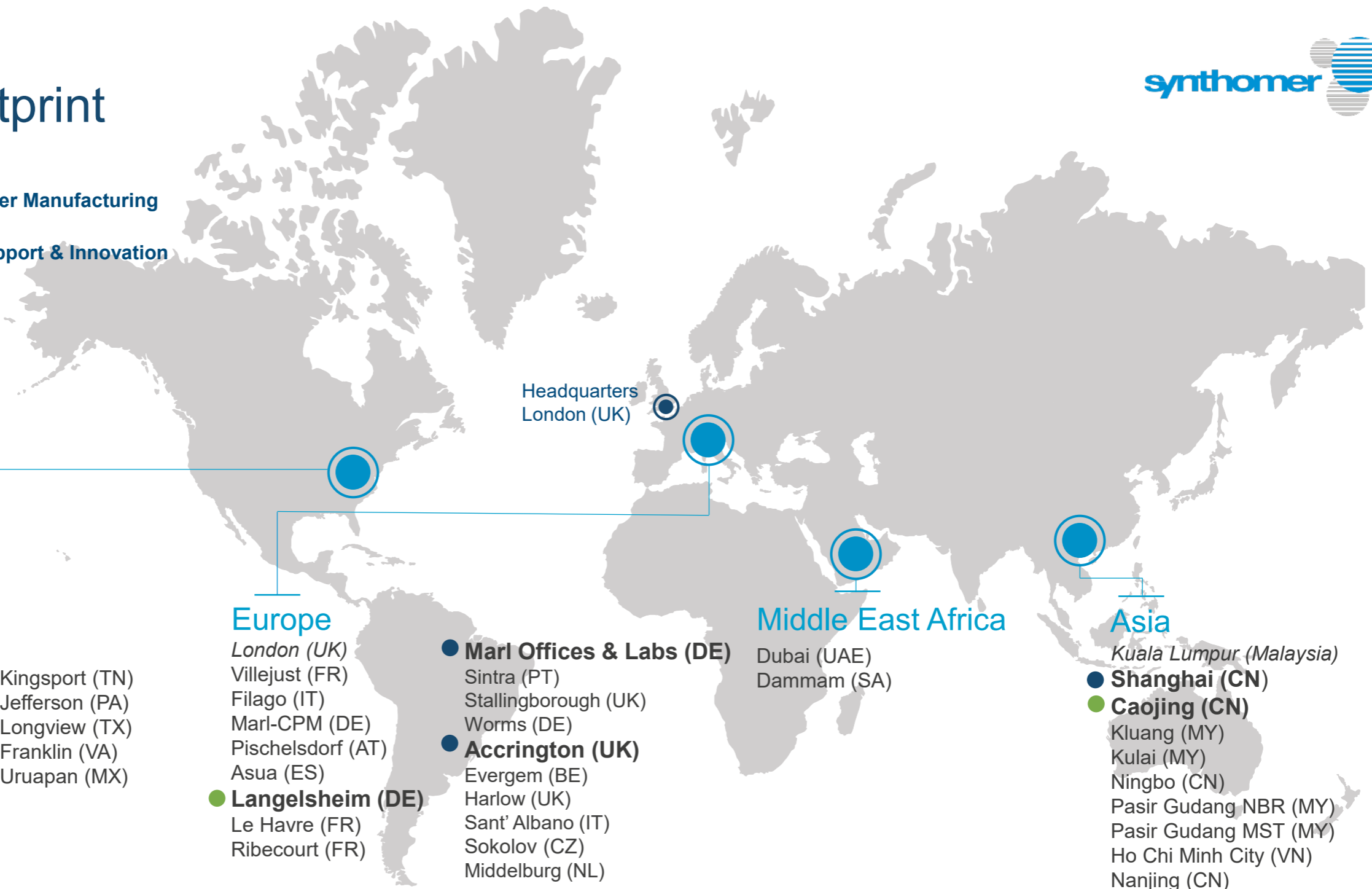
- Formulation flexibility & ease of use
- Outstanding electrode adhesion & electrolyte resistance
- Excellent electrochemical properties for long-term capacity retention

Product Name	Chemistry	Tg (°C)	TSC (%)	pH	
LITEX LB 420	SBR	11	46	7.0	For low resistance, high adhesion
LITEX LB 422	SBR	-10	46	7.0	Optimized for cold temperature processing

Global Footprint



-  LITEX LB - SBR Binder Manufacturing
-  Battery Technical Support & Innovation



Americas

Beachwood, OH
Akron (OH)

-  **Akron Tech (OH)**

-  **Mogadore (OH)**

Calhoun (GA)
Chester (SC)
Roebuck (SC)
Houston (TX)
Columbus (MS)

Kingsport (TN)
Jefferson (PA)
Longview (TX)
Franklin (VA)
Uruapan (MX)

Europe

London (UK)
Villejust (FR)
Filago (IT)
Marl-CPM (DE)
Pischelsdorf (AT)
Asua (ES)

-  **Langelsheim (DE)**

Le Havre (FR)
Ribecourt (FR)

-  **Marl Offices & Labs (DE)**

Sintra (PT)
Stallingborough (UK)
Worms (DE)

-  **Accrington (UK)**

Evergem (BE)
Harlow (UK)
Sant' Albano (IT)
Sokolov (CZ)
Middelburg (NL)

Headquarters
London (UK)

Middle East Africa

Dubai (UAE)
Dammam (SA)

Asia

Kuala Lumpur (Malaysia)

-  **Shanghai (CN)**

-  **Caojing (CN)**

Kluang (MY)
Kulai (MY)
Ningbo (CN)
Pasir Gudang NBR (MY)
Pasir Gudang MST (MY)
Ho Chi Minh City (VN)
Nanjing (CN)

Continuous Innovation to Keep Pace with an Electrifying World



High Performance Li-ion Materials

High-capacity batteries

→ Binders for next gen Si-actives

Fast charging & high-power cells

→ Improved SBR electrical resistance

Better temperature performance

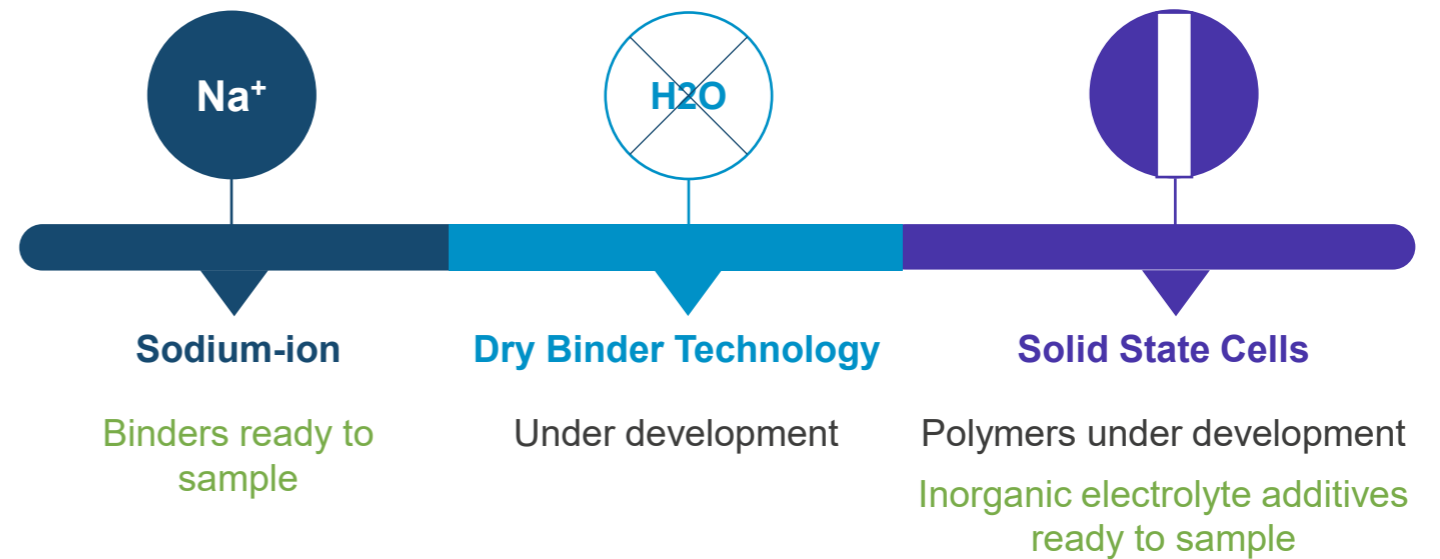
→ Binder performance at high & low temperatures

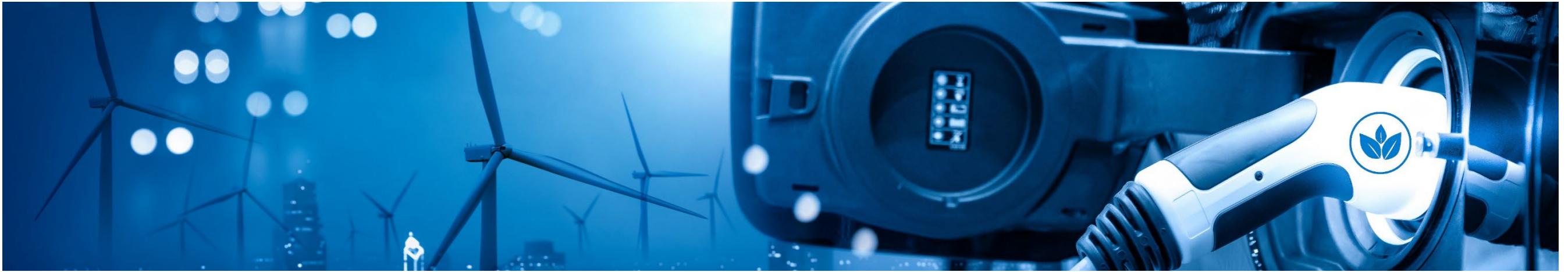
Water based cathode binder systems

→ Replacements for PVDF

Innovating to Support Disruptive Technology

→ Partnering to meet needs in alternative cells





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