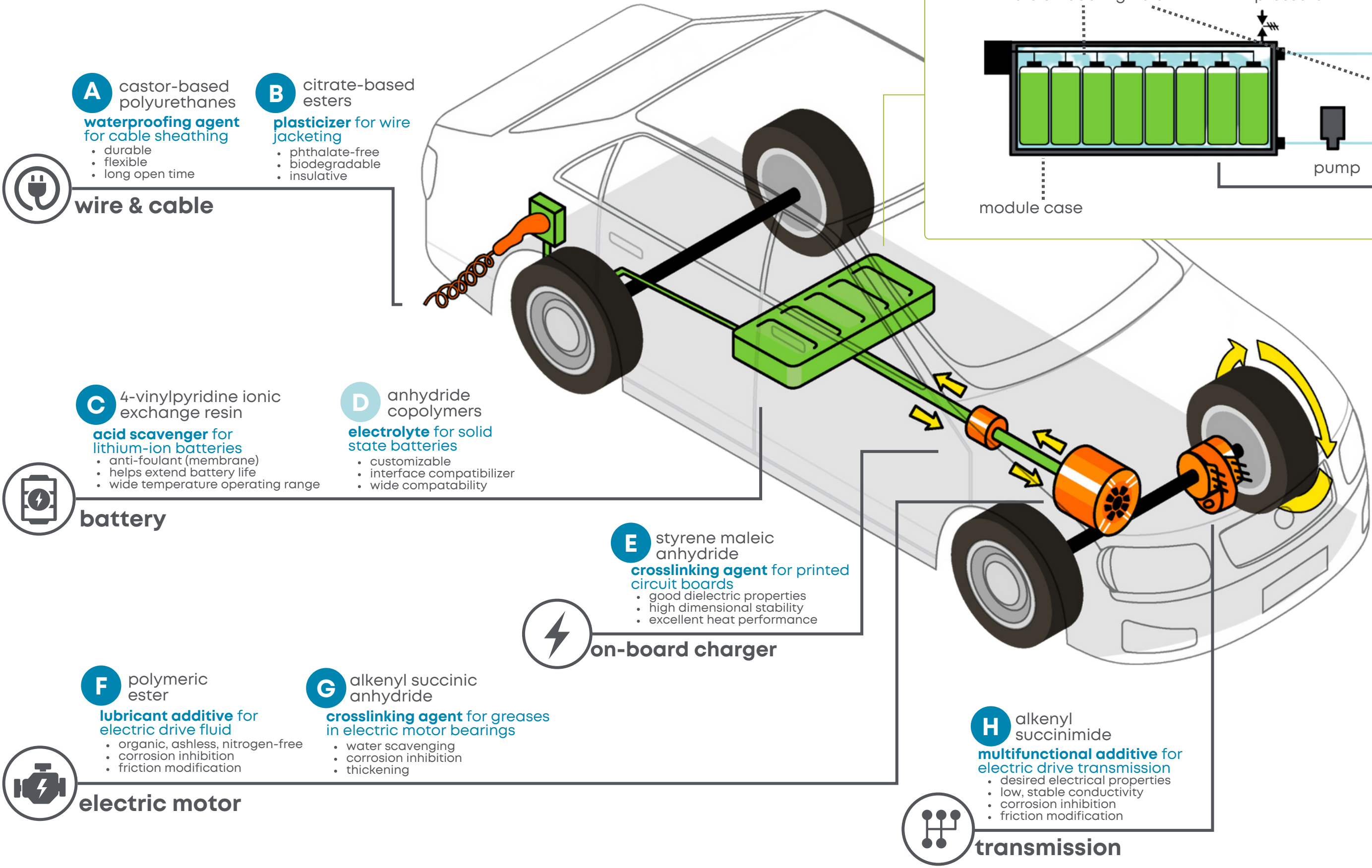
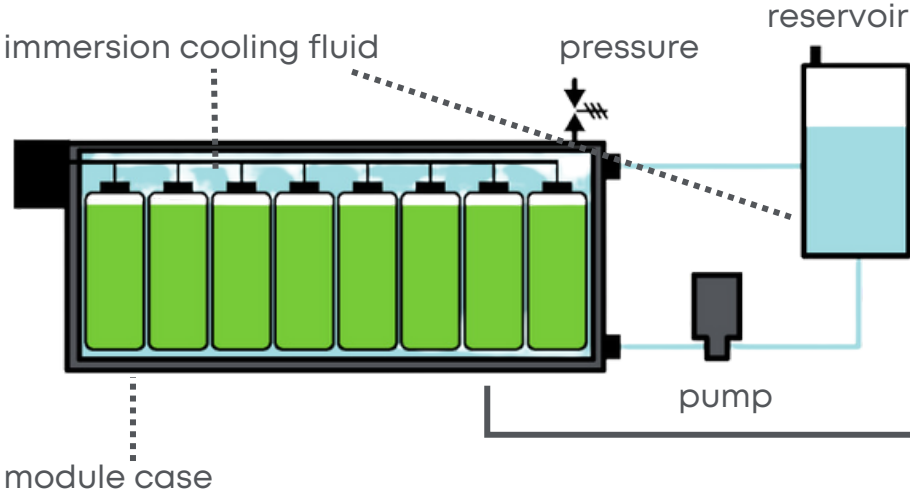


electric vehicle



battery detail



I synthetic ester blend
immersive coolant for battery systems
 • low viscosity
 • excellent thermal properties
 • stable electrical conductivity

cooling fluid

J styrene maleic anhydride
polymer performance enhancer for battery housing
 • lightweight hybrids
 • recyclable
 • dimensional stability

housing

solutions

- A** D-Encapsulant Sealant
- B** Citroflex™ Plasticizers
- C** Reillex™ Resins
- D** Anhydride Copolymers
- E** Xiran EF Compatibilizer
- F** Texalene™ Lubricant Polymers
- G** Indapro™ Lubricant Intermediates
- H** Texalene™ Multifunctional Additives
- I** Proprietary Ester Blend
- J** Xibond™ Performance Enhancers

● commercially available ● new product development



A castor-based polyurethanes
waterproofing agent for cable sheathing
 • durable
 • flexible
 • long open time



wire & cable

B citrate-based esters
plasticizer for wire jacketing
 • phthalate-free
 • biodegradable
 • insulative

C 4-vinylpyridine ionic exchange resin
acid scavenger for lithium-ion batteries
 • anti-foulant (membrane)
 • helps extend battery life
 • wide temperature operating range



battery

D anhydride copolymers
electrolyte for solid state batteries
 • customizable
 • interface compatibilizer
 • wide compatability

E styrene maleic anhydride
crosslinking agent for printed circuit boards
 • good dielectric properties
 • high dimensional stability
 • excellent heat performance



on-board charger

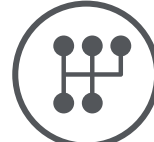
F polymeric ester
lubricant additive for electric drive fluid
 • organic, ashless, nitrogen-free
 • corrosion inhibition
 • friction modification



electric motor

G alkenyl succinic anhydride
crosslinking agent for greases in electric motor bearings
 • water scavenging
 • corrosion inhibition
 • thickening

H alkenyl succinimide
multifunctional additive for electric drive transmission
 • desired electrical properties
 • low, stable conductivity
 • corrosion inhibition
 • friction modification



transmission