

AUTOMOTIVE SOLUTIONS

Across Hybrid, Electric, +
Internal Combustion Engine Vehicles



ALKEGEN

Advanced Materials Across Every Vehicle System

A Portfolio of Proven Automotive Solutions

From batteries and power-trains to sealing, filtration, acoustics, insulation, and thermal management, Alkegen's engineered materials help enhance safety, performance, efficiency, and durability throughout the vehicle.

Battery Packs & Enclosure Insulating Materials

AlkeGel™ Prism – High-performance aerogel insulation engineered to reduce thermal transfer and enhance battery system safety.

FyreWrap® LiB – Integrated thermal runaway protection solutions combining thermal barriers, compression performance, high temperature electrical insulation, and vent gas management technologies.

Interface® Sealing Gaskets – Performance sealing solutions that help protect battery packs from moisture, contaminants, and corrosion while maintaining enclosure integrity.

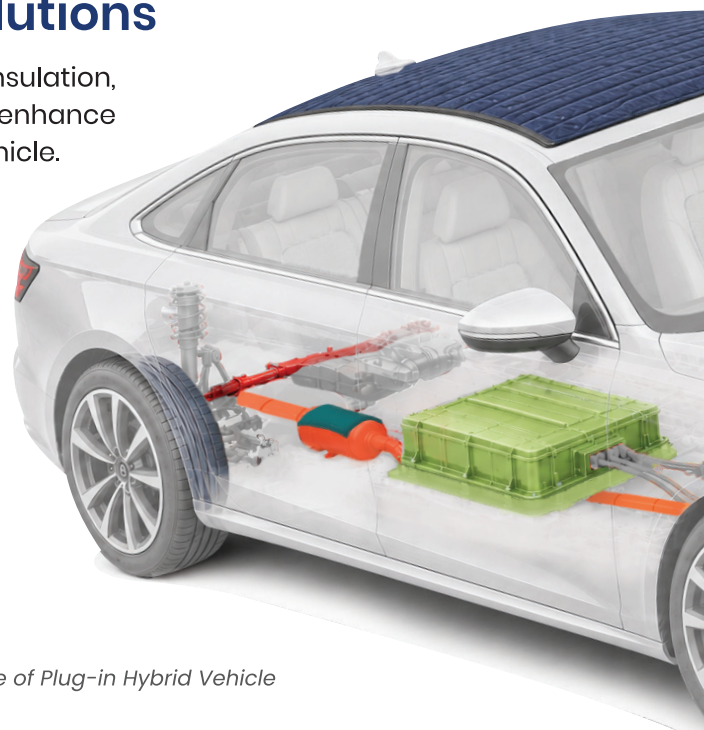
SiFAB® – Advanced silicon fiber anode technology enabling higher energy density batteries for longer range and improved performance.

Underbody Insulation

Isomax® – A needled, shot free AES fiber blanket with low thermal conductivity.

VC-Max® Insulation – Engineered shapes with polycrystalline fibers designed to withstand areas with high vibration and temperature exposure.

QSP® Insulation – Two-dimensional sheet with refractory ceramic fibers and low erosion profile and ultra-low shot content.



Example of Plug-in Hybrid Vehicle

Exhaust Systems Solutions

PC-Max® Support Mats – Binder-free, needled polycrystalline support mat with the highest level of performance.

Ecoflex® Support Mats – Cost effective polycrystalline alternative with proven long term performance.

CC-Max® and XPE® Support Mats – Advanced refractory ceramic fiber solutions with a strong established performance.

Isomat® Solutions – Low bio-persistent fiber-based solutions with Alkaline Earth Silicate fibers that meet health and safety standards, without compromising

AlkeGel Prism
Aerogel Technology BY ALKEGEN

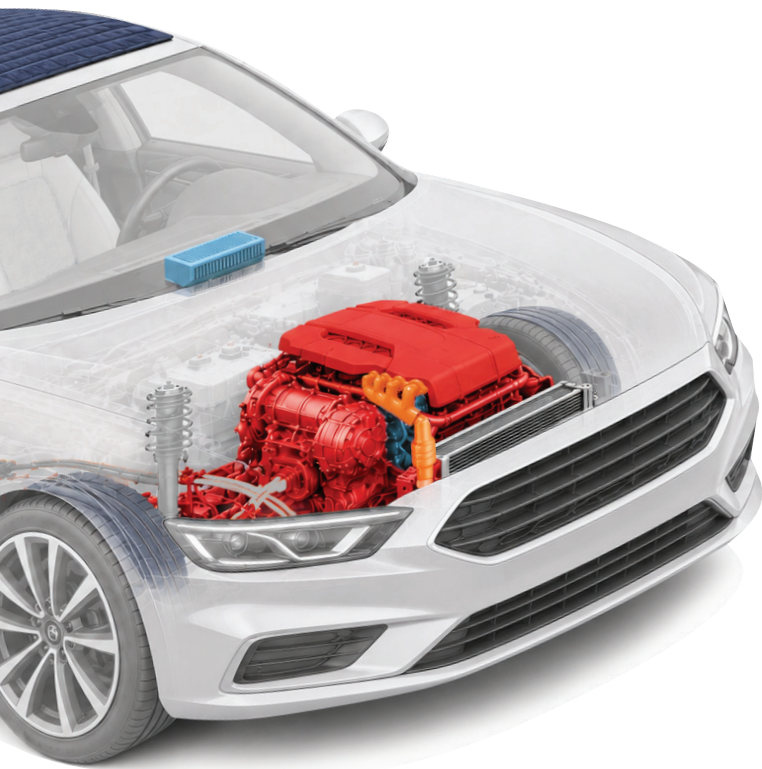
FyreWrap LiB
Thermal Runaway Protection BY ALKEGEN

SiFAB
Silicon Fiber Anode Battery Technology
BY ALKEGEN

Interface

CC-Max

XPE



Internal Combustion Engine, Transmission, + Front + Rear Axle Gaskets

Select-A-Seal® – Gasket materials in the engine and transmission designed to withstand extreme thermal cycling, chemical exposure, and intense mechanical pressure with advanced adhesion and compression technology.

Applications include:

- Front Cover Gaskets
- Oil Pan Gaskets
- Waterpump, Intake Manifold Composites
- Select-A-Seal Axle Cover + Drive Line Assemblies
- Transmission Select-A-Seal Gaskets

Cabin Air, Fuel + Oil Lubricant Filtration Media (Molecular + Particulate Filtration)

LydAir® GP – Composite media incorporating sorbent particles designed to remove airborne molecular contaminants, improving cabin air quality and protecting sensitive vehicle systems.

TriboStatix™ – Electrostatic air filter media to neutralize and protect cabin air quality.

LyPore® MG – Advanced liquid filtration media for oil filtration, transmission, and transaxle filtration.

Phenolic-coated filtration media – Automatic transmission fluid filters that provide chemical resistance, mechanical strength and durability in hot oil environments. Highly efficient and long lasting, removes debris including clutch material, metal particles, and seal wear residues.

Roof, Door + Wheel Acoustical Components

ThermoFit® Thermoformable Material – Supports three-dimensional shaping for lightweight interior structures, maintaining dimensional stability and delivering consistent acoustic performance.

Applications include: Wheel well liners, door panels, roof modules, HVAC acoustic panels.

VersaFlex® Scrims – Offers multidirectional stretch for wrinkle-free forming and uniform surfaces in complex interior geometries.

Applications include: Headliners, molded cushions, trim backings, B- and C-class scrims.

Select-A-Seal®

TriboStatix
High Efficiency Filtration by Alkegen

LyPore®

LydAirGP
BY ALKEGEN

QSP®

VC-Max®

IsoMat

PC-Max®

Global Manufacturing + Sustainable, Trusted Solutions

Alkegen's automotive expertise is built on decades of material science and proven application experience across demanding, energy-intensive industries. Formed through the combination of legacy Unifrax and Lydall, Alkegen brings together complementary strengths across thermal ceramics, battery safety materials, filtration technologies, nonwoven materials and sealing solutions for a range of applications.

These materials are integrated across global sites, supported by manufacturing, Research and Development, and technical service teams in all major automotive regions. Our operations align with top automotive quality and environmental standards, supporting consistent performance, reliable global supply, and compliance with customer and regulatory requirements. OEMs and Tier-1 suppliers rely on Alkegen not only for materials, but for application knowledge, engineering support, and long-term partnership.



**Global Presence
+ Regional Supply**



**Vertically Integrated
Manufacturing**



**Full-Service Partner:
Engineering, Prototyping,
Testing, Industrialization**



**Long-Term Cost Position:
Non-Aerogel + Low Dust Aerogel Solutions**



**50+ Years Automotive T1/T2:
Battery Solutions in Serial Production Since 2017**

Global reach. Local support. Proven expertise.

60+ Manufacturing Facilities | 7,500+ Employees Worldwide

ALKEGEN

Alkegen – Irving, Texas
Mandalay Tower III
201 East John Carpenter Freeway,
Suite 900
Irving, TX 75062
U.S.A.

Form A-6263
Effective 09/26
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