Aismalibar

Revolutions in industry are the result of the power model that favors them. Water, wind, animal power, coal and oil all changed the way we get from one place to another. Today, the revolution is occurring in the automotive sector through the application of electronic systems.

Increasing fuel efficiency, strengthening safety, minimizing emissions and guaranteeing confidence in the product are the main priorities of the automotive sector. This is all made possible by automotive electronic systems.

The number of power-train control modules, engines and sensors in cars today has increased dramatically over the last ten years. Aismalibar products ensure excellent thermal management of these highly electrified models, where the efficiency of all the systems and components is unquestionable.

The direction that the industry has taken will result in a generation of high-performance electric vehicles whose limitations depend only on our own imagination.

COOLING ELECTRONICS

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AUTOMOTIVE

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Automotive Lighting

Smart lighting systems require flawless coordination between LED technology and the other components that the system manages and hosts.
This indoor and outdoor lighting formula demands rigorous thermal management, which allow automated control through systems that regulate its intensity, thereby preserving the reliability and durability of the model. The products we develop and manufacture at Aismalibar are the ideal support for the best thermal and lighting management in the automotive industry.

FRONT LIGHTS

LED technology offers creative freedom to designers and the substrates where these light sources, adapted to different shapes and highly compact sizes, are incorporated. The inefficiency of exterior lighting systems in cars during driving could have tragic consequences. With our laminates, specifically designed and manufactured to support high light intensity concentrated in a limited area, we are able to guarantee the reliability of the system. Through exceptional thermal management and durability, front-light intensity will not decrease due to excess temperature of the parts.

FASTHERM | FLEXTHERM | COBRITHERM ULTRATHIN

REAR & INTERIOR LIGHTS

As technology evolves, dashboards have become increasingly populated, turning them into control panels that provide us with vital information. Interior lighting is one of elements that must co-exist with others and meet the demands required of it. All of these systems, including rear lights and signal lights, will be more efficient and remain stable thanks to good thermal management.

FLEXTHERM | COBRITHERM ALCUP

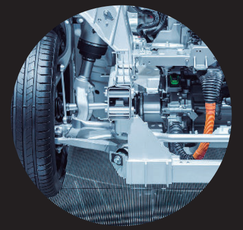
Automotive Power train

More in less space is the goal of the automotive industry. In this evolution, electronic functions linked to numerous subsystems increase. Engine control, power transmission, power steering and on-board charger are just a few of the electronic functions needed to guarantee a higher power flow. In electronic propulsion systems, thermal management is crucial to preserving the durability and useful life of their parts. Aismalibar's product portfolio provides the most suitable solutions to guarantee the high power demand of these systems.

HDVC POWER TRANSMISSION

To transform and conduct electric voltage in automotive systems, solutions are used ranging from semiconductor devices such as insulated-gate bipolar transistors (IGBT) to high-voltage direct current (HVDC) systems for propelling vehicles.
Through thermal management, the advanced technology that Aismalibar designs and manufactures increases efficiency, guaranteeing the reliability of these mechanisms.

BOND SHEET CURED | COBRITHERM HTC



ELECTRIC POWER STEERING (EPS)

An electric motor joined to the steering column reduces the harshness of driving, increasing comfort thanks to the integration of electronic power steering systems.
Efficient thermal management through the use of Aismalibar technology will guarantee the reliability of your device.

BOND SHEET CURED | COBRITHERM HTC

ON BOARD CHARGER (OBC)

Advances in electric car technology are closely linked to the evolution of lithium-ion (li-ion) batteries. Today, they grant us a degree of autonomy that ranges from two hundred fifty to three hundred and ten miles. This major leap, together with emissions reduction, makes these batteries an attractive ecological alternative. However, heat fluctuation negatively affects battery charging capacity, safety and longevity.

BOND SHEET CURED | COBRITHERM HTC

Linked Products

COBRITHERM ULTRATHIN

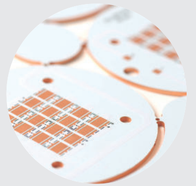
An innovative Ultra-Thin dielectric layer of only 35 microns provides higher thermal performance and excellent working temperature, which offers excellent thermal dissipation conditions for high power LEDs assembly.

COBRITHERM HTC

It is designed for the reliable thermal dissipation of circuitry. A proprietarily formulated reinforced-polymer-ceramic bonding layer with a high thermal conductivity and high dielectric strength allows us to guarantee thermal endurance.

COBRITHERM ALCUP

It is ideal for high and medium power applications and the most commonly used LED assembling purposes from 1W to 2W. Highly recommended for mass production with cost restrictions.

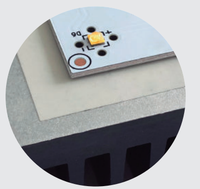


FASTHERM

By using FASTHERM, LEDs operate at 30 to 50ºC lower in temperature due to the direct thermal transition from the thermal pad to the heat sink. It is perfect for LED dissipation direct bonding to the substrate.

FLEXTHERM

Its flexible properties enable it to conform to both the negative and positive radii allowing the product to adapt to the ever changing demands of the industry. Typical applications are high power LED, power supply modules and the automotive industry.



BOND SHEET CURED

Dielectric polymerized glass reinforced in a Bond Sheet with high thermal conductivity. It is based on epoxy ceramic chemistry, and intended for improving thermal contact between two surfaces. Its high resistance to thermal shocks assures heat dissipation in critical power circuitry.

Aismalibar

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