



FOR IMMEDIATE RELEASE

February 10th, 2024

Aismalibar to attend APEC 2024

Aismalibar will be attending the APEC, the leading conference for practicing power electronics professionals, in Long Beach, California from February 25th to 29th, 2024 in Booth 552.

Aismalibar will be presenting new cooling technologies for power electronics, specifically Thermal Interface Materials (TIMs) and Insulated Metal Substrates (IMS).

Aismalibar Thermal Interface Materials have been designed to improve the combination of fast thermal transmission plus electric isolation, where needed. TIM performance is an important factor designing an effective cooling chain in future high power electronic modules and High Voltage battery systems for mobile and stationary use. Key performance indicators for TIMs are safety and reliability, lifetime performance plus cost effectiveness for high volume productions from a total cost of solution point of view.

Next to best Thermal Conductivity, our Thermal Interface Materials are divided into whether they need electric isolation or the focus is on achieving lowest Thermal Resistance R_{th} . The dielectric requirements are determined by the power electronic device, its operating voltage and the applicable regulations regarding ground insulation. Aismalibar has developed a variety of TIM surfaces to reduce air cavities, that can occur between TIMs and the heatsinks or electronic components. Also self-adhesive TIMs are available, which can help optimising production process in users' high volume production.

COPPERFILLER and BOND SHEET CURED offer high-performance alternative solutions to current thermal pads or thermal paste. Aismalibar's new "AirGapFiller (AGF) technology", silicone free in e.g. 50um makes the production process easy to apply small TIM thicknesses and avoids thermal paste negative long term effects, "pump-out" / "dry-out".

The new COBRITHERM ALP is made out of an aluminum base that is dielectrically insulated by a glassless layer to achieve isolation level of e.g. >4KV at 100um thickness. It is designed to build structures, covers, partitions or radiators, among other solutions. It is completely high voltage insulated and guarantees excellent contact between power electronic components / battery and its dissipation elements.

IMS METAL CLAD Is a thick aluminum or copper based substrate, clad in ED copper foil, designed for an effective thermal dissipation and high electrical insulation. Our proprietary formulated polymer-ceramic ensures high thermal conductivity, dielectric strength, and thermal endurance. AISMALIBAR's Insulated Metal Substrates allow processing by standard

PCBs procedures, integrating heat dissipation with no need for extra components and SMD assembly process. For the growing complexity of PCB circuitry, Aismalibar offers solutions for double side IMS PCBs.

Visit us at booth 552 to learn more about our products.

We look forward to speaking with you.

ABOUT AISMALIBAR

Founded in 1934 and based in Barcelona, Spain, Aismalibar manufactures high end Copper and Metal Clad Laminates and Thermal Interface Materials. Aismalibar's expertise lies in offering the best solutions to reduce the operational temperature of Printed Circuit Boards and their components, ensuring both quality and reliability. At the main production plant in Barcelona shops – a strategic technological hub – Aismalibar develops, manufactures, and markets the latest advances in laminates for the production of printed circuit boards in order to offer customers a global and personalized service guaranteed through their global subsidiaries. To support PCB shops in Asia, Aismalibar is in the process starting a new IMS and PrePreg production in China.

Aismalibar's goal is to reduce the operating temperature of electronic components, thereby prolonging their operating life and optimizing performance. Furthermore, the materials minimize the use of supplementary fans or heat sinks, thus reducing production costs. TOTAL COST OF SOLUTIONS Since 2009 all the insulated metal substrates (IMS) have been ISO/TS 16949: 2009 certified, RoHS Compliant and Halogen Free. All materials have secured UL certification, among others, for the entire Aismalibar product range.

Aismalibar products are utilized in a variety of different technology market segments such as LED lighting, telecommunications, automotive, renewable energies, home appliances, railway transport, aerospace, energy storage and industrial management systems. The company has evolved to become an unquestionable global leader. Aismalibar is committed to ensuring a guarantee of reliability and service in electronics.