FOR IMMEDIATE RELEASE
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Aismalibar to Showcase Advanced Thermal Management Solutions at APEC 2025

Barcelona, Spain – Aismalibar, a global leader in high-performance thermal management materials, is set to exhibit at **APEC 2025 (Applied Power Electronics Conference)** in **Atlanta, Georgia, from March 16–20, 2025**. As the premier event for power electronics professionals, APEC provides a crucial platform for industry leaders to explore the latest advancements in **thermal interface materials (TIMs), high-performance PCB laminates, and insulated metal substrates (IMS)**.

Aismalibar will be showcasing **cutting-edge thermal management solutions** at **Booth 338**, including **new developments in TIMs and thermally conductive PCB laminates** for **multilayer PCBs and IMS applications**. These materials are engineered to **optimize heat dissipation, improve dielectric insulation, and enhance the reliability of power electronics systems**.

Advanced Thermal Interface Materials (TIMs) for Power Electronics

Aismalibar's **TIM portfolio** is designed to address the critical need for **efficient thermal transfer** while ensuring electrical insulation when required. Our TIM solutions are classified based on **dielectric capacity**, which is determined by the **device's operating voltage and regulatory insulation requirements**. Additionally, Aismalibar has developed **self-adhesive and non-adhesive surface treatments** to minimize **air gaps** between the TIM, heatsinks, and electronic components, thereby **enhancing thermal transfer efficiency**.

Glass-Free Thermally Conductive PCB Dielectric for High-Power Applications

Aismalibar introduces a **next-generation, glass-free, thermally conductive dielectric** for **single-sided and multilayer PCBs**. This innovative material provides:

- **Thermal conductivity up to 10 W/mK**, significantly improving heat dissipation compared to traditional laminates.
- **Dielectric thickness options ranging from 50 to 200 microns**, ensuring versatility across different PCB configurations.
- **High dielectric strength (3 – 10 kV)**, providing robust electrical insulation without sacrificing thermal efficiency.

By eliminating glass reinforcements, this **glass-free bond sheet** achieves superior **thermal conductivity and mechanical flexibility**, making it ideal for **power electronics, automotive, and high-reliability applications**.

IMS Metal Clad Substrates for High-Power Applications

Aismalibar's **IMS (Insulated Metal Substrate)** solutions feature a **thick aluminum base, laminated with ED copper foil**, providing:

- **Superior thermal dissipation**, reducing hotspots and improving system longevity.
- **High electrical insulation**, achieved through Aismalibar's proprietary **polymer-ceramic formulation**.
- **Compatibility with standard PCB manufacturing processes**, enabling seamless integration without additional thermal management components.

Aismalibar's **IMS technology** offers a **cost-effective, high-performance alternative to conventional heat dissipation solutions**, allowing **direct SMD assembly and enhanced thermal endurance** for **automotive, industrial power modules, and LED lighting applications**.

Visit Aismalibar at APEC 2025 – Booth 338

We invite PCB design engineers, thermal management specialists, and power electronics professionals to **visit Booth 338** to explore our latest advancements in **thermally optimized PCB laminates, TIMs, and IMS solutions**. Our team will be available to discuss how Aismalibar materials can **enhance performance, extend component lifespan, and improve overall system efficiency**.

About Aismalibar

Founded in **1934** and headquartered in **Barcelona, Spain**, Aismalibar specializes in the design and manufacture of **high-performance copper and metal-clad laminates, as well as advanced thermal interface materials**. With a commitment to **reducing operating temperatures in power electronics**, Aismalibar's **innovative materials improve component reliability, minimize the need for auxiliary cooling solutions, and reduce overall system costs**.

Our products are **ISO/TS 16949:2009 certified, RoHS compliant, and UL certified**, ensuring the highest standards of **quality, safety, and environmental compliance**. Aismalibar materials are widely used in **LED lighting, telecommunications, automotive, renewable energy, aerospace, industrial control systems, and high-power electronics applications**.

For more information, visit us at **APEC 2025, Booth 338** or contact us at **jeff@aismalibar.com**.

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