

# AISMALIBAR®

MAXIMUM EFFICIENCY FOR POWER **LEDs**



COBRITHERM®  
ULTRA THIN

**New**

## AISMALIBAR LAUNCHES THE NEW COBRITHERM ULTRA-THIN WITH AN ULTRA-THIN DIELECTRIC LAYER.

Demand for higher dissipation rates and higher working temperatures is increasing rapidly. Due to this continued demand, AISMALIBAR has developed a new COBRITHERM with an innovative ULTRA-THIN dielectric layer that provides higher thermal performance and excellent working temperature. All this, being achieved with a thickness of only 35 microns, reduces thermal resistance down to 0,10 Kcm<sup>2</sup>/W (0,17 Kinch<sup>2</sup>/W), which offers excellent thermal dissipation conditions for high power LEDs assembly.

AISMALIBAR continuing with its quality control standards, will continue proof testing (high pot test) 100% of the substrates before delivery to end users in order to guaranty the dielectric insulation of the conductive layers (copper and aluminium). (As the dielectric layers gets reduced testing electric insulation becomes more important).



### WHY USE COBRITHERM ULTRA-THIN

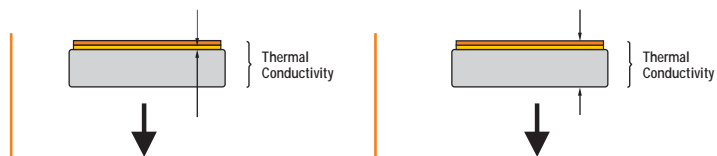
- The entire COBRITHERM range is 100% proof test guaranteed. AISMALIBAR tests the insulation between the copper and aluminium layers under high voltage. Proof tests (high pot test) in the COBRITHERM ULTRA-THIN 35 Micron are carried out at 1000 VDC.
- AISMALIBAR has an experience of over 60 years in the laminate business for PCB production and more than 14 years of experience in thermal management metal CCL.
- COBRITHERM is approved by top OEMs around the world with a focus on the automotive, lighting and power electronics industry (OEM customer list available upon request).
- COBRITHERM has excellent results in endurance testing. It has the UL Recognition as one of the best Insulated Metal Substrates after 60.000 hours.
- COBRITHERM ULTRA-THIN offers the lowest thermal resistance available for an insulated metal substrate.

### THERMAL CONDUCTIVITY AND THERMAL IMPEDANCE

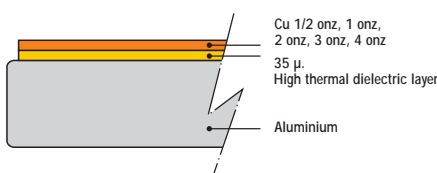
Note 1 :All data under "IMS" has been obtained by testing the complete product made up of the all three layers of aluminium, dielectric and copper.

Note 2: All data under "DIELECTRIC LAYER" has been obtained by testing the dielectric layer exclusively.

Note 3: COBRITHERM ULTRA-THIN can be produced with Anodized Aluminium.



	Composition				Prove Test V Dc	Dielectric layer							IMS (Aluminium + dielectric + copper)				
	Aluminium		Copper			Thickness		Conductivity		Thermal impedance			Conductivity		Thermal impedance		
	mm	inch	mic	onz		mic	mil	W/mK	W/inchK	Kcm <sup>2</sup> / W	Kin <sup>2</sup> / W	°C/W	W/mK	W/inchK	Kcm <sup>2</sup> / W	Kin <sup>2</sup> / W	°C/W
COBRITHERM ULTRA THIN HTC 2,2 W	1	0,039	35	1	1.000	35	1,4	2,2	0,056	0,159	0,025	0,053	45,7	1,161	0,234	0,036	0,078
	1	0,039	70	2									47,0	1,194	0,235	0,036	0,078
	1,5	0,059	35	1									57,9	1,471	0,271	0,042	0,090
	1,5	0,059	70	2									59,0	1,499	0,272	0,042	0,091
COBRITHERM ULTRA THIN HTC 3,2 W	1	0,039	35	1	1.000	35	1,4	3,2	0,081	0,109	0,017	0,036	58,0	1,474	0,184	0,029	0,061
	1	0,039	70	2									59,6	1,515	0,185	0,029	0,062
	1,5	0,059	35	1									70,9	1,801	0,221	0,034	0,074
	1,5	0,059	70	2									72,2	1,834	0,222	0,034	0,074



Sheet sizes available: 1.220 mm.x 930 mm. ( 48"x 36,6"), 1.210 mm. x 1.010 mm. ( 47,8" x 40").  
Aluminium available thickness: 1,00 mm. ( 0,039"), 1,5 mm. ( 0,059"). Other thickness up on request.  
Copper available thickness: 35 (1 oz), 70 (2 oz), 105 (3 oz), 140 (4 oz), 210 (6 oz), 300 (8 oz), 400 (12 oz).

UL Approved, QMST2 File: E47820 RoHS compliance directive 2002/95/EC REACH N° 1907/2006

# AISMALIBAR®

C/ Bach, 2-B  
Pol. Ind. Foinvasa  
08110 Montcada i Reixac  
(BARCELONA) SPAIN

Tel: +34 93 572 41 61  
Fax: +34 93 572 41 65

e-mail: [g.benmayor@benmayor.com](mailto:g.benmayor@benmayor.com)  
[www.benmayor.com](http://www.benmayor.com)  
[www.aismalibar.com](http://www.aismalibar.com)

Trade Mark™ production facilities  
owned by GABRIEL BENMAYOR S.A.



GABRIEL BENMAYOR S.A. - AISMALIBAR is environmentally friendly and committed to sustainable growth. We utilize green energy in more than 50% of our annual power consumption.

## AISMALIBAR TAIWAN BRANCH OFFICE

No 199, Sec 2, GaoTie ZhanQian West road,  
Jung Li city, Taoyuang, Taiwan ROC  
Tel: +886 3 4531733  
e-mail: [g.benmayor.taiwan@benmayor.com](mailto:g.benmayor.taiwan@benmayor.com)

## AISMALIBAR NORTH AMERICA BRANCH OFFICE - TFE

79 Milliken Blvd Unit 4, Toronto,  
On M1V 1V3 Canada  
Tel: +1 416 321 0770  
e-mail: [aismalibar.usa@aismalibar.com](mailto:aismalibar.usa@aismalibar.com)

