

K I F A

**KOREA FAR INFRARED ASSOCIATION**  
**KOREA INSTITUTE OF FAR INFRARED APPLIED ESTIMATION**

174-12, Seokchon-Dong, Songpa-GU, Seoul, Korea

<http://www.kfir.or.kr>

TEL 82-2-2203-6037

Fax 82-2-2203-6061

**CERTIFICATE OF TESTING RESULT**

Serial No. of Issue : KFI-592  
Name of Applicant : Rich Way & N.F  
Address of Applicant : 1750 KALAKAUA AVE 103 HONOLULU, HI 96826  
Date of Receipt : 8. 17. 2007  
Name of Test Sample : Amethyst

**TEST RESULTS**

Emissivity (5 ~ 20 $\mu\text{m}$ )	Emission Power ( $\text{W}/\text{m}^2 \cdot \mu\text{m}, 50^\circ\text{C}$ )
0.913	$4.24 \times 10^2$

1) Test Method : KFIA-FI-1005

2) The temperature of  $50^\circ\text{C}$  is provided by the applicant.

The above experimental results were measured in comparison  
with BLACK BODY by using the FT - IR Spectrometer.

3) Test Results : Refer to the Enclosed

4) Usage : Quality control.

※ This certificate of testing result shall be used within the purpose of its defined usage.

8                      20                      2007

month                      day                      year

Signed

*Choi T. S.*

The director of Korea Institute of  
Far Infrared Applied Estimation

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**CERTIFICATE OF TESTING RESULT**

Serial No. of Issue : KFIA-299  
Name of Applicant : Rich Way & N.F  
Address of Applicant : 1750 KALAKAUA AVE 103 HONOLULU, HI 96826  
Date of Receipt : 8. 24. 2007  
Name of Test Sample : Amethyst

**TEST RESULTS**

TEST ITEM	SAMPLE	EARLY CONC. (CFU/ml)	AFTER 24HOURS (CFU/ml)	REDUCTION RATE OF BACTERIA(%)
ANTIBACTERIAL TEST FOR <i>Escherichia coli</i>	Blank	$3.1 \times 10^5$	$1.6 \times 10^5$	—
	Amethyst		$1.1 \times 10^5$	64.5
ANTIBACTERIAL TEST FOR <i>Pseudomonas aeruginosa</i>	Blank	$2.8 \times 10^5$	$1.8 \times 10^5$	—
	Amethyst		$1.1 \times 10^5$	60.7

Note) 1) The blank test was measured on non-test sample.  
2) The bacteria number on the petri dish was detected by multiplication of dilution rate. End.

- 1) Test method : KFIA-FI-1002
- 2) Name of used bacteria  
*Escherichia coli* ATCC 25922  
*Pseudomonas aeruginosa* ATCC 15442
- 3) Refer to the Enclosed (2-1, 2-2)
- 4) Usage : Quality control

※ This certificate of testing result shall be used within the purpose of its defined usage.

9                      6                      2007

month                      day                      year

Signed


*Choi T. S.*

The director of Korea Institute of  
Far Infrared Applied Estimation

# RichWay NEW BIO-MAT



# Electric Heat Mat

RichWay New Bio Mat	Items	Other Electric Heat Mat or Mud Mat
<ol style="list-style-type: none"> <li>1. ⇒ Surface Material : Silicon Urethane.</li> <li>2. ⇒ Natural <b>Amethyst</b> (Long Wave infrared Rays).</li> <li>3. ⇒ Double Protected Safety Layer.</li> <li>4. ⇒ Hyron Cotton Layer (Thermal Insulation Layer)</li> <li>5. ⇒ Air Roll Padding Cottons.</li> <li>6. ⇒ Water Proof Layer.</li> <li>7. ⇒ Japanese Kurare's <b>Super Fiber</b>(Long Wave infrared Rays).</li> <li>8. ⇒ First Aluminum Layer (The Interception of Water Vein Wave and Harmful Electromagnetic Waves).</li> <li>9. ⇒ Japanese Kurare's Special <math>\ominus</math> <b>Ions</b> Conductor.</li> <li>10. ⇒ First Urethane Protector Layer.</li> <li>11. ⇒ Solid Square Cotton Padding.</li> <li>12. ⇒ Second Aluminum Layer (Prevents Over Heating &amp; Electromagnetic Waves).</li> <li>13. ⇒ Japanese Kurare's <b>Carbon Ceramic</b> Heating Fiber.</li> <li>14. ⇒ Second Urethane Protective Layer.</li> <li>15. ⇒ Padding-Hyron Silk Cotton Thermal Insulation Layer.</li> <li>16. ⇒ Concentrated Ceramics Reflects Infrared Rays.</li> <li>17. ⇒ Bottom: High Quality Silk Cotton Material.</li> </ol>	<p><b>Cross</b></p> <p>← <b>Section of</b> ⇒</p> <p><b>Layer</b></p>	<ol style="list-style-type: none"> <li>1. ⇒ Surface Cotton Material</li> <li>2. ⇒ Mud Power</li> <li>3. ⇒ Copper Fiber Material</li> <li>4. ⇒ Aluminum Foil</li> <li>5. ⇒ Metallic Heating Coil</li> <li>6. ⇒ Aluminum Foil</li> <li>7. ⇒ Nylon &amp; Cotton Layer</li> <li>8. ⇒ Bottom: Surface Cotton Material</li> </ol> 
<p>It uses Japanese Kurare's Carbon Ceramic which reduces electrical consumption 60% or more as compared to other electrical mattresses.</p>	<p>← <b>Save on Electricity</b> ⇒</p>	<p>① It uses a metallic coil to produce heating which consumes extra electricity, and possibly cause fire.</p>
<p>It uses special function that emits <math>\ominus</math> <b>Ions</b> and transforms <math>\oplus</math> <b>Ions</b> to <math>\ominus</math> <b>Ions</b> in the human body. It gives strength and energy to the human body and relieves pain</p>	<p>← <b>Emission of Negative Ion</b> ⇒</p>	<p>① Does not produce <math>\ominus</math> <b>Ions</b>.</p>
<p>Uses Japanese Kurare's Super Fiber Materials to generate <b>Long Wave Infrared Ray</b>, (8-12 Micron), that the human body can easily absorb.</p>	<p>← <b>Emission of Long Wave Infrared Ray</b> ⇒</p>	<p>① Produce little or no infrared Rays.</p>
<ol style="list-style-type: none"> <li>① 1st Interception: Japanese Kurare's Carbon Ceramic can reduce and minimize the Electromagnetic Waves.</li> <li>② 2nd Interception: Double Layered Aluminum Fiberglass further reduces Electromagnetic Waves.</li> <li>③ 3rd Interception: Even though there are very few Electromagnetic Waves left, Japanese Kurare's Super Fiber completely absorbs the remainder of the Electromagnetic Waves.</li> <li>④ 4th Interception: A Special I.C Chip is in the Control Box which cuts off Electromagnetic Waves.</li> </ol>	<p><b>The Interception of Electromagnetic Waves</b></p> <p>← ⇒</p>	<ol style="list-style-type: none"> <li>① Metallic Coil Heating System emits a lot of Electromagnetic Waves.</li> <li>② To reduce the products cost they use Aluminum Foil or a Copper Fiber to cut the Electromagnetic Waves. It causes a lot of harm because there is no protection.</li> <li>③ If the human body comes in direct contact with the mattress, there are many harmful effects to the body. If body is exposed to the Electromagnetic Waves, then there will be a reduction of 80% of the Melatonin Hormone, which affects sound sleep and resists to all kinds of diseases.</li> </ol>
<p>A Special layer of double Aluminum Fiberglass completely cuts off harmful Water vein Waves.</p>	<p>← <b>The Interception of Water Vein Waves</b> ⇒</p>	<p>① Because it uses Aluminum Foil and Copper Fiberglass. it cannot cut off harmful Water Vein Waves.</p>
<p>It has the most developed I.C Chip which cuts off the Electromagnetic Waves. A Soft Touch Control System which has many convenient functions.</p>	<p>← <b>Control Box</b> ⇒</p>	<p>① Only has minimum function and a temperature controller.</p>
<p>Emits many <math>\ominus</math> <b>Ions</b> and Long Wave infrared Rays which contributes to a healthy life.</p>	<p>← <b>E.T.C</b> ⇒</p>	<p>① To reduce the product cost, they don't use essential and expensive parts. Because it cannot cut off the Electromagnetic Waves, it is nothing but an electric heat mattress.</p>

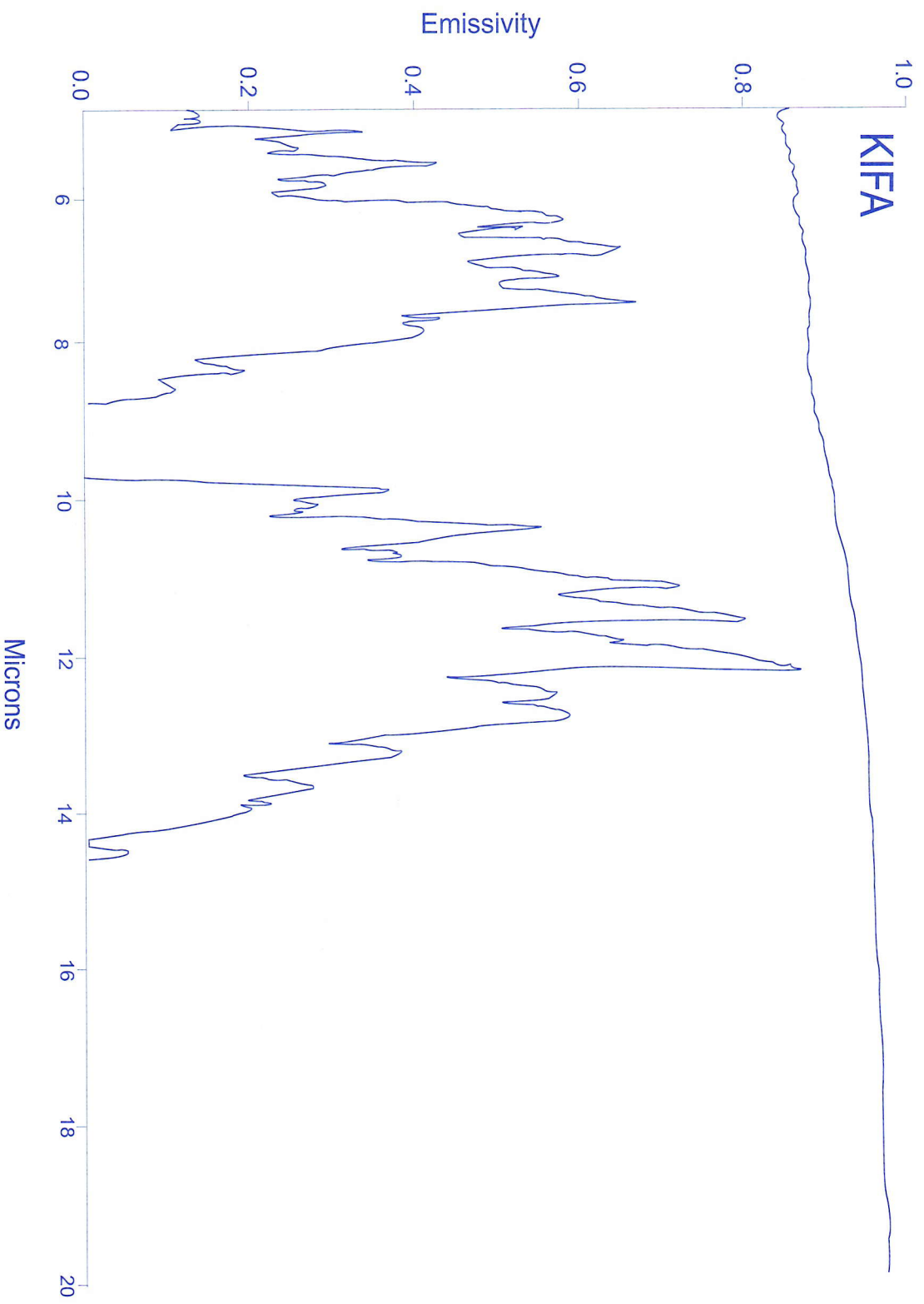
# KIFA



< Fig. 1 >



< Fig. 2 >



**KIFA**

**Microns**

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