

relief

Safety

# Tourmalingo MK<sup>+</sup>

HEALING SPACE WILL ENVELOPS YOU

## What's the Tourmalingo?

Tourmaline is a cute interior made with tourmaline ore famous for negative ions and good quality zero magnetic field with healing effect!

## The effect of Tourmalingo?

Tourmaline is a small air purifier.

Deodorizing effect, as well as refreshing air · PM 2.5 will be removed.

It also relaxes by increasing the alpha waves in the brain ...

There are also some customers who have purchased up to now

have a very good change for children as

"child's sleep has improved" and "concentration has improved".

It will care for various stress of the present day and it will be better.

\\You can get other good changes!/\

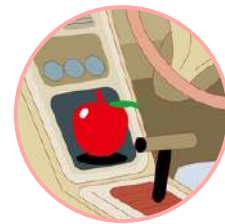
Sound sleep

Remove PM2.5

Electromagnetic  
wave environment  
improvementFeng  
shui

Concentration UP

Reduce stress



## How to use the Tourmalingo!

It's very easy to use, You can put it in the living room, side of the pillow, the office, entrance, even in the car. Just put it!

Afterwards please be healed by the excellent effect of tourmaline and the cute looks.

## At last the sales totaled 6 million !

⇩We got so many comments from our customers⇩

It feels like I get excited from the body. Both mind and body can be fine.  
I was surprised with the effect beyond imagination! Thank you very much. Female

I was able to concentrate on my work, and use PC faster! It was surprising  
though it was half-trusted! Female

## Tourmalingo MK<sup>+</sup>

The size : H60× W70× D55mm(90 g)

The package size : H130× W100× D60mm(110 g)

The contents : Zero magnetic field water, tourmaline ore, water absorbing agent

Colors : 5 types of color

Part number : TR-261~265

The price : 1,000 yen(tax excluded)



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## WHAT'S THE TOURMALINE?

Tourmaline is called a polar crystal, it is a special ore that generates minus ions under certain conditions and is said to have electricity permanently as long as the sun is.

Electrons released from tourmaline electrolyze water and moisture in the air, It releases negative ions called hydroxyl ions (H3O2 -).

In addition, tourmaline is caused by repeated irradiation of negative ions. It is said that there is also a bactericidal action, where it is worrisome for odor. It smells odor (oxidized smell) just by putting in a little. And electromagnetic waves emitted by personal computers and mobile phones essential to modern society,

It is said that it will convert it to good energy for humans, This is a state that has not yet been elucidated.



Tourmaline ore

## STRUCTURE OF TOURMALINE

Tourmaline is made from high quality zero magnetic field water, tourmaline ore, water absorption polymer. The zero magnetic field water is a high quality magnetic field water involving the zero magnetic field generation substrate developed by our company. The tourmaline ore is in powder form and it is inside as a ceramic ball. In addition, the visible part is a water-absorbing polymer and absorbs zero magnetic field water.



To verify the deodorant and antibacterial effect of tourmaline, it was verified through the quality test. We processed tourmaline as fiber and conducted two tests. As for the deodorizing effect, we confirmed how many odor components can be deodorized in 2 hours. As a result, 99.8% of ammonia, 92.9% of acetic acid and 98.0% of trimethylamine were cut. From this it can be seen that there is a great effect on the deodorizing effect of the space. ※ See Figure 1

In addition, as for the antibacterial effect, the result as shown in the following figure appears and its effect is proved. This also proved effective for antibacterial effect. ※ See Figure 2.3

ニオイ成分	減少率(%)
アンモニア	99.8
アセトアルデヒド	32.1
酢酸	92.9
トリメチルアミン	98
硫化水素	15
メチルメルカプタン	6.3
ピリジン	55
イソ吉草酸	68.7
ノネナール	19.4
インドール	78.6

試料名	生菌数	菌数 log	殺菌活性値	静菌活性値	
トルマリン繊維	0時間 (o)	2.9 × 10 <sup>4</sup>	4.5	3.0以上	5.6以上
	18時間 (c)	<20	1.3以下		

	生菌数	菌数 log	増殖値
植菌数 (a)	2.1 × 10 <sup>4</sup>	4.3	2.4
無加工布菌数(18時間培養) (b)	4.8 × 10 <sup>6</sup>	6.7	

## THE EFFECTIVE OF REMOVAL PM 2.5

To verify the removal effect of PM 2.5 in tourmaline, it was verified through quality test. In this test we used tourmaline ore powder with zero magnetic field processing. Put PM 2.5 particulate matter in the box and measure the concentration over time to see the difference between the change in case of empty and the case of containing tourmaline powder.

As a result, when there was nothing, the removal rate was 13.3%, whereas when the zero magnetic field processed tourmaline ore powder was added, the removal rate was 66.6%. \* See Fig. 4.5 From this, it can be seen that the zero magnetic field processed tourmaline ore powder has a considerable effect in the removal of PM 2.5 in the air. ※ See Figures 4 and 5



	経過時間			除去率
	初期濃度	30分後	60分後	
ゼロ磁場加工 トルマリン鉱石粉末	100	75.2	60.7	39.3
空試験	100	93.4	86.7	13.3

◇FOR DETAILS, PLEASE VISIT OUR WEBSITE.

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## About brain wave experiment

We examined what kind of change will occur in the brain waves by using tourmaline. We quantified the changes in the brain when tourmaline was not used and when it was used, and compared it. Reference 6

Measuring equipment: biological signal processing equipment ALPHA MASTER manufactured by Foot Techno 2018.06 Japan Far Infrared Applied research

—Kinds of brain wave—

$\alpha$  wave(alpha wave)

Being calm · concentration · Occurred when you are

$\beta$  wave(beta wave)

stress · tension · Occurred when you are irritating.

$\theta$  wave(theta wave)

Slow sleep and state of being a middle breeze.

Occurred in condition that the flashing / insight is

◇With just 60 minutes wearing, the alpha wave increases nearly doubling, and you can see that the relaxation effect of tourmaline is very high. Beta waves are also alleviated, and stress and tension are eased. From this we can see that there is a relaxing effect and stress relieving effect by using zero magnetic field.

## Also !

In addition to the effect / efficacy derived from tourmaline, zero magnetic field water containing high quality energy of zero magnetic field is used for this product "tourmaline". The following verification is effect verification which can be expected by [using zero magnetic field water](#).

図6 脳波スペクトル変化 測定値

	$\theta$ 波	$\alpha$ 波	$\beta$ 波	$\alpha$ 波増減値
着用前	6.7	18.3	71.7	+13.4
着用60分後	5.0	31.7	60.0	

トルマリンゴ

■脳波出現率試験



## ABOUT BIOLOGICAL STRESS MITIGATION EFFECT

In order to confirm the effect of zero magnetic field generation seal on living body stress reduction, we conducted comparative verification before and after use. Numericalization of saliva measurements of changes in stress level during normal use and sticking zero magnetic field seal.

Measuring equipment: Amylase monitor made by NIPRO Co., Ltd. / 2018.04 Far Infrared Applied research group

## ABOUT ANTIOXIDANT IMPROVEMENT EFFECT TEST

In order to confirm the effect of improving the antioxidant power of the zero magnetic field generating seal on the living body, we conducted comparative verification before and after use. Changes during normal use and zero magnetic field generation seal application were quantified by measuring redox potential.

Measuring device: saliva redox meter Co., Ltd. Rib & Love Co., Ltd. / 2018.04 Far Infrared Application research group

図7 生体ストレス度測定値

	使用前	使用60分後	低減値
ゼロ磁場発生シール	49	44	-5

(単位: KIU/L)

◇In only 60 minutes the measurement of living body stress level decreased by about 13%. It can be expected to reduce the "degree of stress" which is a measure of health.

図8 生体酸化還元電位測定値

	使用前	使用60分後	増減値
ゼロ磁場発生シール	86	75	-11

(単位: mV)

◇Measurement value of biological oxidation-reduction potential decreased by about 11% in only 60 minutes.

It is expected to improve the "antioxidant power" which is very important for anti-aging.

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