



Tourmaline Powder

Used for environmental protection commodities, such as sofa, chair pad, bedding, clothing ornament and filter medium, etc.

[Specification]

D50 granule size: 0.5 μ m

[Colors]

White, gray, light yellow

[Main Ingredients]

Silicon dioxide: 51~52.5%

Alumina: 18.5~20%

Chrome green: 1.2~1.7%

Calcium oxide: 4.2~4.7%

Ferric oxide: 1.3~1.5%

Fluorine ion: about 1.8%

Hydroxide ion: about 3.7%

Others: about 1.5%

Titanium dioxide: 5~7%

Boron trioxide: 3.5~4%

Magnesium hydroxide: 6.8~7.3%

Strontium oxide: 0.8~1%

Sodium ion: about 2%

Manganese ion: about 1.1%

Cesium: about 0.2%

[Elements]

Tourmaline Powder is one kind of silicate substance with aluminium, sodium, magnesium and lithium ring structure being of containing boron. It is of thermoelectricity and piezoelectricity. Due to the electric self-polarization of tourmaline, polarized energy comes from the change of temperature, the heat releasing coefficient is $10^{-7} \sim 4 \times 10^{-6} \text{c} \cdot \text{cm}^{-2} \cdot \text{k}^{-1}$. When the temperature and pressure changes (including micro change), then will cause potential difference (voltage). This kind of static voltage is up to 1 million electron volts and will accelerate surrounding air occur ionization. The electrons being shot down adhere close water and oxygen molecule, and make them transform into air negative ions (namely H_3O_2^- and O_3^{2-}), and make polarity ions in balance position oscillate, so that causes dipole square change to generate negative ions.

[Advantages]

1. Tourmaline Powder can persistently release negative ions, emit far infrared ray and generate 0.06mA biological current. Hence it can purify air, accelerate the microcirculation of the body, adjust the balance of the body, resist bacterium and diminish inflammation, resist fatigue, soothe the nerves and quiet breath, and build up body health.
2. It can be added into plastic mother material, chemical fibre, sponge, non-woven, cosmetic and ornaments, etc. to increase its functions.
3. Utilize these products to remake into various environmental protection commodities, such as sofa, chair pad, bedding, clothing ornament and filter medium, etc.
4. After tourmaline negative ion powder is made into ceramic ball and ceramic brick, it can activate, purify and mineralize tap water, treat utensils, use in shower equipments, plunge bath and swimming pool. Put it in icebox, it can restrain bacteria and eliminate odor to keep foodstuff fresh.

[Main Features]

Amount of generating negative ions: 2000~2200p/s.cm³

Radiance of far infrared ray (the wavelength is 2~14 μ m) : $\geq 85\%$

Specific gravity: 2.98~3.2

Specific surface area: 15.2m²/g



PH of soaking water solution: 7.0~7.4

Insoluble in water

[Packing, Storage and Transportation]

Plastic bag outside, transparent PE bag padded inside, 25kg/bag, or customized

Keep from raining, and avoid moisture. Stored in dry place.

[Instruction For Use]

Can be directly added into the formula of the products and won't change original product technics.

Suggested adding dosage of the powder: 1.5~5%

The highest using temperature: 1250℃

Weightlessness at 100℃ ≤1.5%

Weightlessness at 1000℃ ≤15% (But it also can be done according to the requirement of customers ≤ %)

[Application]

It can be used for environmental protection commodities, such as plastic mother material, chemical fibre, sponge, non-woven, cosmetic and ornaments, sofa, chair pad, bedding, clothing ornament and filter medium, etc.

[Price]