

Liquid X4



induce for purity

水溶性ケイ素
Water Soluble Silicon
Wasserlösliches Silizium



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What is water-soluble silicon?

What is silicon in the first place?

It is essential mineral for a body. This nutrient is contained in mineral ore, and cannot be absorbed when taken into the body as it is.

Silicon is similar to dietary fiber, which is divided into water-soluble that can be absorbed by the body and insoluble that cannot be absorbed. In short, no matter how fine powder "silicon" (mineral ore) is made into, it cannot be absorbed by the body as it is.

Only the way we can take in essential mineral, "silicon" is to utilize the food chain. The silicon contained in soil is drawn by vegetation after being dissolved with special liquid secreted by vegetation, and animals eat such nutrient and absorb silicon into their bodies by means of the food chain, but only a very small amount.

Here is enriched water-soluble silicon so supplement essential mineral, "silicon." It is manufactured through the special process of extracting water-soluble silicon out of insoluble silicon.

The raw materials of water-soluble silicon are crystals, and the mineral ore, "silicon" contained in soil is called crystal rock when it is crystalized into 99.9% purity. The amount of silicon existing on the earth is the second largest after oxygen and this nutrient plays an important role within the body.

In-depth explanation of water-soluble silicon

Water-soluble silicon used to be traded among only a tiny percent of people as magic water to perform a miracle to treating intractable diseases more than 4,000 years ago.

Recent research showed that silicon not only holds special power, but the nutrient of silicon also increases self-cure capability and regains one's original immunity to cure diseases.

There are not many wonder drugs even in the cutting-edge medicine that cure symptoms themselves. Most medicines only control inflammation or alleviate pain. In majority of treatments, all they can do is wait for patients to recover from diseases by self-cure while simply controlling symptoms with medicines.

In the medically advanced nations such as Germany and the United States, nutrient components like water-soluble silicon that activates body at a cellular level are regarded as most popular supplements to support people's health and beauty from inside the body.

Although silicon itself does not make any specific action, it replenishes cells, and such effects appear in various aspects.

How to use water-soluble silicon ?

As supplement, water-soluble silicon supports both from inside and outside of the body by drinking and applying it to the skin or scalp. It is also applicable for pet animals, foliage plants or agricultural crops. There are extended ways of applications.

For drinking

The purposes of drinking water-soluble silicon is to recover body functions from inside by utilizing its various actions at a cellular level such as bacteriostasis, osmosis, cleansing, activation of cells, anti-inflammatory effect, detoxification, anti-oxidation, etc.

The basic regimen is drinking a few drops of water-soluble silicon with any beverages or food. 10 to 20 drops for a glass of fluid (200ml) is usually enough, but 30 drops will be even more effective.

It can be mixed with juice, coffee, mineral water or even liquor. It is also OK to mix it in curry, hot pot dish or simmered, etc.

For application to the skin

Prepare a spray bottle and dilute water-soluble silicon with approximately 10 times mineral water.

For hair care, spray it to the scalp for massaging or spray it to the hair for brushing.

It is also effective to mix a few drops of undiluted water-soluble silicon with shampoo to utilize its cleansing power.

For skin care, mix it with facial cleanser or beauty essence. It is even more effective to directly spray it to the skin after face wash, or spray to the affected area of atopic dermatitis or eczema.

Other applications

Applications may be expanded almost infinitely upon new ideas, and the followings are some representative examples.

For your pet, spray it for regular brushing. To energize agricultural crops or foliage plants, spray it to the soil so that water-soluble silicon is absorbed through roots. For flowers, apply a few drops of undiluted solution into water in a vase.

Washing vegetables with water mixed with silicon will help thoroughly remove harmful substances such as pesticide or agrichemicals. Thus water-soluble silicon can be applied in three ways; drinking, applying to the skin and others. It will be fun to think about various other ways of applications.

No side effects

Safety is recognized as the result of several pharmaceutical products tests conducted by university and medical institute laboratories, no risk of side effects is found. Besides, water-soluble silicon is designated as one of the 66 "substances that will not harm human health" by Ministry of Health, Labor and Welfare according to Food Sanitation Act. Water-soluble silicon is essential mineral like zinc, calcium, sodium, iron, potassium, phosphorus, etc. Each mineral is effective in a specific field; potassium is called mineral for blood pressure, iron for blood, calcium for bones, and sodium for taste sensation. Silicon is called mineral for collagen, and collagen is an all-rounder as it is relevant to each and every cell. Silicon is also regarded as one of the 27 extremely safe nutrients for a human according to the Article 11-3 of Food Sanitation Act defined by Ministry of Health, Labor and Welfare, and it is proven as non-genotoxic health food with no risk of side effects as the result of the pharmaceutical products GLP standard safety test. Some may concern because the raw material of silicon is crystal rock, but there is no need to worry about because a crystal rock itself is made of 99.9% pure silicon crystal.

Safety proven by disposition

Have you heard the word "disposition"? It is often emphasized in evaluating health food and nutritional supplement. Ingredients and specific effects of supplements are generally valued most when people choose which supplement to take. However, the more important is how nutrient component is absorbed into the body, where it works, and how it is excreted out of the body. Quite a lot of health supplements do not show them clearly and some people do not even know if nourishment is really absorbed by the body. If disposition of a nutrient component is not clear, you cannot tell whether it is accumulated in the body or excreted from the body if taken excessively. Besides, if nutrient component is accumulated in the body, it may cause some kinds of side effects. On the contrary, disposition of water-soluble silicon is very clear.

- Oral intake of water-soluble silicon: When taken from a mouth, silicon is absorbed by the intestines and the blood concentration of silicon reaches the peak level in about 2 hours.
- Distributed by blood to cells: Silicon absorbed into blood is distributed to cells in the entire body, which is then utilized for activation of cells and generation of collagen.
- Excreted in urine: Used or surplus silicon is excreted from the body with urine in 12 to 24 hours.

It is clear how silicon is used in the body and how it is eventually excreted from the

body, indicating that silicon is a safe nutrient component with no risk of side effects due to its clear disposition.

Effect and action of water-soluble silicon

Multiple effects and actions of high-purity water-soluble silicon concentrated solution are recognized such as bacteriostasis, osmosis, cleansing action, activator action, anti-inflammatory action, detoxification, lipolytic action, anti-oxidation, etc. However, unlike other supplements, it does not have a specific effect such as lowering blood glucose level, reducing neutral fat, burning fat, etc. Silicon is the nutrient that activates metabolism of cells. It works on 60 trillion cells in the human body. Silicon absorbed in the body promotes metabolism of cells of all organs, muscles, bones, skin, etc. By replacing old cells by new cells, silicon not only prevents various aging symptoms, but also brings various effects and actions as follows.

Cleansing action

Silicon washes away environmental pollutant and agrichemicals attached to vegetables and fruits, and it can be applied in various fields such as purifying water discharged from houses and factories, improving contaminated soils, controlling propagation of green algae and microorganism, purifying ocean water, and so forth.

It not only removes attached agrichemicals or environmental pollutant, but its bacteriostasis property is also effective in purifying unwanted bacteria and preservative attached to imported meat and old rice.

Cleansing action

Applications of cleansing power of silicon are researched in various scenes. For example, you can see the effect when washing vegetables and fruits with water-soluble silicon. Attached agrichemicals or environmental pollutant usually cannot be washed away with tapped water. It only removes soil or dust attached to vegetables and the color of water does not change dramatically. However, when you wash vegetables or fruits with water containing water-soluble silicon, its cleansing action is activated and harmful substances such as agrichemicals and environment pollutant is thoroughly removed. As a proof, the color of used water changes surprisingly. Thus, the cleansing action of water-soluble silicon can be utilized in various applications such as purifying bathtub water, water in a reservoir, etc.

Various application of cleansing action

It is actually utilized in various fields such as improving contaminated soils or water

and there must be many other ways around you to apply this cleansing action of water-soluble silicon. It will be fun to find various applications on your own.

Bacteriostasis

Bacteriostasis means sterilizing unwanted bacteria or harmful bacteria in the body, eliminating and preventing bacteria in the kitchen or a hospital, or disinfecting bacteria contained in food or water.

Bacteriostasis property of water-soluble silicon is applied not only for health but also in wide area including hospitals and medical facilities as well as kitchen where elimination or prevention of bacteria is necessary. In addition, it is also utilized in various other areas such as for sterilizing agricultural crops, processed food, tap water or water in reservoir, etc.

Effect of bacteriostasis

Water-soluble silicon concentrated solution is effective as supplement in sterilizing and controlling propagation of harmful bacteria, unwanted bacteria, gum disease fungus, acne fungus, etc.

By drinking water-soluble silicon, it controls propagation of harmful bacteria in large intestines, while supporting increase of good bacteria. When harmful bacteria propagate, consumed foods are decomposed (oxidized) while generating malodor and toxin that causes poor physical condition or generates smelly fart. Water-soluble silicon, due to its bacteriostasis, is expected to condition intestinal environment and support health.

Furthermore, applying of water-soluble silicon to the skin will help preventing propagation of acne fungus, and rinsing mouth with water-soluble silicon will prevent propagation of gum disease fungus. Spraying of water-soluble silicon to the underarm, the groin or behind the ear will control sweat odor or aging odor by sterilizing responsible microorganism.

Experiment of bacteriostasis

There are various ways to verify the effect of bacteriostasis of water-soluble silicon.

The simple way is to eliminate microorganism responsible for odor such as armpit odor, foot odor, bad breath, etc. It takes only a few minutes to see the effect. Prepare a small spray bottle and 10-time diluted water-soluble silicon. Then spray it to the smelly area of your body. For relatively strong odor like armpit, 10-time diluted water-soluble silicon will be enough, but for stronger odor, it is recommended to spray undiluted water-soluble silicon. You will notice odor disappears in 1 or 2 minutes.

This bacteriostasis property can be applied for acne fungus, bad breath, unwanted bacteria, gum disease fungus, etc., or even for your pet. Safety for pet odor is confirmed.

Activator action

It is the action of activating cellular metabolism.

Human body consists of 6 trillion cells and a body is usually maintained youthful and healthy through metabolism by constantly replacing old cells by new cells. When this metabolism slows down, various aging symptoms appear. As for beauty aspect, you may notice spots, wrinkles, loss of firmness or moisture of the skin, thinning hair, hair loss, gray hair, etc.

As for health aspect, you may notice joint pain, backache, lifestyle-related diseases, etc. caused by abrasion of joint, aging of blood vessels, weakened muscle, etc. Needless to say, decreased vision due to presbyopia, decreased athletic performance and cardiorespiratory depression also follow. Improvement of cellular metabolism is called activator action. Among many health supplements, the activator action of water-soluble silicon is outstanding.

Activator action

Activator action of water-soluble silicon maintains youthful and energetic physical condition both in beauty and health aspects. On the contrary, if the body lacks in silicon, you would not only lose youthfulness but also degrade your physical condition in various ways.

It is mainly because of aging blood vessels that slows down blood circulation and results in lack of oxygen, enzyme and hormone necessary for cellular metabolism.

Originally blood vessels maintain normal by being reborn from old cells to new cells through metabolism. But if blood vessels are continuously damaged by arteriosclerosis, etc., aging symptoms develop too fast for blood vessels to be repaired.

Activator action of water-soluble silicon is quite effective in repairing blood vessels. It repairs capillary vessels that are thinned or clogged due to arteriosclerosis and promote sufficient supply with nutrient to systemic cells.

As a result, silicon ingredient circulates around the systemic cells, improving cellular metabolism to maintain youthful skin and hair. It also activates metabolism of internal organs and cells to regain their original functions, and damaged liver or kidney regain their functions to healthy conditions.

Osmosis

You may heard the word, osmosis in advertisement for cosmetic or hair growth agent.

It is the action of penetrating ingredients into the deep cells. The action of nutrient component taken from the mouth quickly absorbed and carried by blood to cells is another way of osmosis.

Osmosis action of water-soluble silicon provides two excellent effects; one is to penetrate itself as nutrient component at a cellular level and the other is to support osmosis of other ingredients. Let's see the osmosis action and effect of water-soluble silicon.

Osmosis effect

Osmosis action mechanism of water-soluble silicon is; to divide nutrients/ingredients into nanoparticles (segmentalization) to increase osmosis. To be more specific, it segmentalizes ingredients of hair growth/restoration agent or beauty essence to increase osmosis. This action can also be applied in the medical field. By using water-soluble silicon with external medicine for atopic dermatitis or psoriasis, eczema, for example, it helps osmosis of medicine ingredients. More and more dermatologists encourage patients to drink or topically apply water-soluble silicon with treatment.

Here is a well-known testimonial from a patient with athlete's foot. After three months of treatment with external medicine for dry and hardened athlete's foot with no improvement, he applied undiluted water-soluble silicon combined with external medicine. Only one week later, hardened skins were all peeled off, and what was beneath the peeled skin was soft, completely cured new skin. As you can see this case example, osmosis of water-soluble silicon seems to help external medicine ingredients penetrate deep into cells.

Experiment of osmosis effect

Osmosis action of water-soluble silicon starts with dividing ingredients into 2.5 billionths-meter nanoparticles (segmentalization). It helps ingredients or nutrients penetrate into skin cells and the tip of capillary vessels.

Here is an experiment to prove it. Sesame oil and water never mix together no matter how much you stir up, but by adding the same amount of water-soluble silicon, sesame oil mixes perfectly with water because of water-soluble silicon divides sesame oil into nanoparticles of one 2.5 billionths meter. It changes into opaque fluid due to emulsification. In our daily lives, there must be many other ingredients whose effects will double by utilizing osmosis action of water-soluble silicon.

Anti-inflammatory action

Anti-inflammatory action literally means alleviating inflammation. Water-soluble

silicon is acknowledged for its excellent anti-inflammatory action, but it does not directly relieve inflammation. Human body has its original immunity to naturally relieve inflammation in the body, and this anti-inflammatory action of immunity is called self-cure. When the body is weakened and in poor physical condition, however, immunity deteriorates and becomes incapable to relieve inflammation.

Anti-inflammatory action of water-soluble silicon improves immunity to promote self-cure to naturally control inflammation taking place in the body.

Effect of anti-inflammatory action

Let's see how and where this anti-inflammatory action works. For example, in the case of bone fracture or injury, the affected area develops inflammation. There are many medicines to control inflammation, and it seems more effective to rely on such medicines than waiting for self-cure. However pain-killers are not necessarily effective for any inflammation. In the case of intractable diseases such as atopic dermatitis or plaque psoriasis, skin is apparently in inflammatory condition but the cause is unknown. Plaque psoriasis is particularly difficult to treat and complete cure cannot be expected even in the latest medicine. For skin inflammation caused by atopic dermatitis, there is no miracle drug either. Although some medicines can alleviate the symptoms, there is no treatment to cure such skin inflammations completely.

Improving immunity is effective to alleviate skin inflammation, and anti-inflammatory action of water-soluble silicon could be the most suitable nutrient component for improvement of immunity as far as there is no particular solution.

Application of anti-inflammatory action

Needless to say, improving immunity is effective for treatment and prevention of diseases. In fact, various inflammations take place in our bodies, if not bone fracture or injury. Small inflammations occur all over the body including eczema, acne caused by acne fungus, pimples caused by unwanted bacteria, etc.

Drinking water-soluble silicon on a daily basis heightens functions of large intestines and thymus gland that are closely related with immunity. Thus minor inflammation can be alleviated by immunity. Although different from anti-inflammatory action of medicines, it seems most powerful a defense system for the human body. Immunities contain natural killer (NK) cells that attack thousands of cancerous cells produced per day. Improving immunity, therefore, means building the powerful defense system.

Detoxification

Since water-soluble silicon works at a cellular level and dissolves lipid, detoxification

efficacy is applicable for various purposes.

For example, it dissolves fat (neutral fat and cholesterol) attached to a blood vessel wall and excrete it from the body. Furthermore, activation of metabolism helps detoxification of old cells. Activation at a cellular level also helps liver and kidney function to recover as well as to dissolve and get rid of alcohol, nicotine and other toxin. More than anything, what is expected most about water-soluble silicon is the action of detoxification to remove harmful substances, especially heavy metals accumulated in the body.

Detoxification effect

By the way, you may ask what kind of effect you can benefit from detoxification of heavy metals or what kind of heavy metals are harmful for the body. They are mercury, arsenic, lead, aluminum, and so on. Without knowing, those metals are taken through polluted air and food and gradually accumulated in the body.

And such harmful heavy metals cause kidney or liver function disorder, skin disorder, respiratory problems, allergy reaction, metabolic disorder, chronic headache or irritation. And all of these heavy metals are positively charged

Negatively-charged water-soluble silicon absorbs positively-charged harmful heavy metals and carries them out of the body. Isn't it such a great detoxification effects?

Application of detoxification effect

Not only heavy metals, but many other substances are also harmful for the body.

Additives contained in food, agrichemicals attached to agricultural crops, activated oxygen generated from ultra-violet ray or stress, dioxin generated through garbage incineration, etc. are all harmful substances.

These toxins are dissolved and excreted in urine by liver and kidney. In other words, liver and kidney are closely related to detoxification, and therefore these organs' functions must be well-maintained for health and beauty.

Water-soluble silicon is acknowledged for its effect of activating metabolism of these important organs, so water-soluble silicon concentrated solution is an essential supplement to heighten detoxification of the body. We hope you utilize this detoxification action in various applications to gain healthy body.

Lipolytic action

Next is about lipolytic action of water-soluble silicon. It is the action of dissolving cholesterol or neutral fat attached to blood vessel walls and promoting burning or excretion from the body.

With this lipolytic action, it controls lipid contained in blood, improves thick blood, promotes smooth blood flow. Furthermore, it dissolves fat attached to a blood vessel wall, so that it can deal with or prevent arteriosclerosis.

Effect of lipolytic action

More people recently use lipolytic action of water-soluble silicon for weight control. The effect of dissolving excessive fat sounds quite attractive for the diet! However, the most attractive effect is an improvement of lifestyle-related diseases and metabolic syndrome.

In the case of diabetes, high blood pressure or metabolic syndrome, improvement of arteriosclerosis and thick blood need to be improved and capillary vessels need to be repaired. All of these issues are related to fat. Besides, “weight loss” is the common theme for them, so the diet needs to be carried out in parallel.

The diet for beauty and health and improvement of lifestyle-related diseases and the diet! Thus water-soluble silicon meets your expectation with its lipolytic action.

Experiment of lipolytic action

To prove lipolytic action of water-soluble silicon, here is an experiment of mixing sesame oil and water. It could be any kind of oil, but use of sesame oil is an easy way to know the result because it is colored. First, pour the same amount of sesame oil and water into a glass. Sesame oil and water would never mix together no matter how you stir them up.

Next, pour sesame oil and the same amount of water-soluble silicon into another glass and leave it for a few minutes before stirring. Then you will see sesame oil mixes with water molecules and becomes stark white after being dissolved and divided into nanoparticles.

It is an easy but impressive experiment to see the lipolytic action of water-soluble silicon. Please give it a try!

Antioxidant action

Next is about antioxidant action of water-soluble silicon. Silicon is a relatively stable substance and it does not get rusted even when it is heated or bound with oxygen. Due to this characteristics, silicon is utilized in various fields.

As you know Silicon Valley, silicon is used to make semiconductors. It is also silicon that is used for breast implant in cosmetic surgery. Recently silicon is also used for microwave cooking utensils because it does not change its shape even heated up.

Thus silicon is recognized as the substance that is hard to get oxidized and also prevent

oxidization of other substances.

Antioxidant action

Silicon works at a cellular level and is used as the material to make cells. A large amount of silicon is contained in cell membrane, in short, silicon is contained in any cells in the body and prevents oxidation of the body.

It is said that 1 or 2% of oxygen taken by natural breathing becomes active oxygen in the body and attacks (oxidizes) every cell. It is silicon contained in cell membrane that defends against the attack by active oxygen. This antioxidant action of water-soluble silicon is effective in preventing oxidization at a cellular level.

Experiment of antioxidant action

There is an experiment to verify the antioxidant action of water-soluble silicon.

Prepare two small bottles filled with water and two nails. Put one nail into one bottle of water, and put the other nail into another bottle of water added with water-soluble silicon. A few weeks or months later, you will see the surprising result.

The nail in plain water rusts up into red, while the nail in water with water-soluble silicon is not rusted at all and the liquid remains transparent. It means that water-soluble silicon attaches to the surface of a nail and prevents it from being bounded with oxygen by antioxidant action.

As you can see the effect of antioxidant action from such a simple experiment, ingredients of water-soluble silicon work on every cell in the body and defense against attack by active oxygen. This is the very effect of antioxidant action.

Case examples: How to utilize water-soluble silicon

Like pharmaceutical products, general supplements also have specific actions such as lowering blood pressure or glucose level, repairing liver function, alleviating joint pain, etc. However, water-soluble silicon concentrated solution does not have a specific effect. Nevertheless, this nutrient engages in every cell of the body from internal organs to muscles, bones, skin and hair and activates these cells, and repairs or recovers functions of the body at a cellular level.

Taking water-soluble silicon concentrated solution on a daily basis as nutritional supplement can supplement shortage of silicon. As a result, it heightens one's original self-cure (natural healing) capacity and performs various miracles.

Now let's see the case examples of various water-soluble silicon applications.

Case Examples: Strengthen blood vessels

Silicon repairs blood vessel cells

Water-soluble silicon supplement activates systemic cells.

This page is particularly about the action of activating blood vessel cells and various effects indirectly caused by reinforced blood vessels.

Water-soluble silicon repairs blood vessels. You may have heard the word, blood vessel age. Flexibility of blood vessels tend to reduce with age. Its main reason is arteriosclerosis, and arteriosclerosis itself is attributed to aging symptom and excessive intake of lipid and carbohydrate.

When artery hardens, the blood vessel itself also becomes hardened and fragile like a worn hose. Furthermore, atheroma called plaque is formed and a blood vessel gets thinner that hinders smooth flow of blood. Healthy blood vessels are elastic and robust, while an aged vessel is more fragile and blood circulation is poor.

Water-soluble silicon activates metabolism of blood vessel cells and repairs damaged blood vessels. Besides, it dissolves lipid (neutral fat and cholesterol) attached to inside of the blood vessels and excretes it in the body. Plaque formed by arteriosclerosis is repaired through replacement of cells, thus blood vessels are strengthened.

Furthermore, blood vessels need to be flexible, and collagen is necessary to bind cells to maintain flexibility. Since water-soluble silicon is the nutrient necessary for generating collagen, it is beneficial for promoting metabolism of blood vessel cells and generating collagen at the same time to create elastic and strong blood vessels.

Effect of reinforcing blood vessels

Every cell in the body repeats metabolism without resting so as to be re-born as a new cell, while blood carries nutrients necessary for such metabolism.

Blood provides nutrients such as oxygen, enzyme, hormone, etc. necessary for metabolism to every cell in the body. A capillary vessel of a hardened artery is clogged and cannot deliver nutrients to each cell.

Likewise for skin, hair, bone or muscle, metabolism slows down if capillary vessels are clogged and nutrients cannot reach. Important organs like liver and kidney are the aggregate of capillary vessels, and arteriosclerosis could deteriorate functions of internal organs.

As you can already see, water-soluble silicon repairs capillary vessels so that nutrients reach at a cellular level to promote smooth metabolism. Major effects are indicated below.

Effect of repairing blood vessels

- Improves moisture and firmness of skin, spots, wrinkles, and sagging.
- Improves skin inflammation such as atopic dermatitis, plaque psoriasis, etc.
- Revive thinning hair.
- Regains black and shiny hair.
- Prevents hair loss and promotes hair growth and hair restoration.
- Prevents deterioration of liver and kidney functions or recover their functions.
- Promotes blood circulation and lowers blood pressure.
- Dissolves and excrete fat and carbohydrate in the body.
- Strengthens bones to prevent or improve osteoporosis.
- Promotes insulin secretion and lowers blood glucose level.

Thus water-soluble silicon repairs damaged blood vessels and brings numerous indirect effects and actions. Making robust and strong blood vessels is essential to maintain normal function of the body.

While many health supplements are chosen due to their specific action, water-soluble silicon supplements nutrients necessary for recovering each and every function of the body rather than performing a specific action.

Case Examples: Prevents hair loss, thinning hair and gray hair

How water-soluble silicon revives hair?

Many of those who drink water-soluble silicon find their hair-related issues solved. They see hair growth or hair restoration effects such as reduced hair loss, improvement of thinning hair, darkened gray hair, etc. after three months of use.

By adding a few drops of water-soluble silicon into shampoo, conditioner, hair growth/restoration agent, osmosis of ingredients is promoted by water-soluble silicon and their effects are heightened.

Hearing it may lead you misunderstand that water-soluble silicon has hair growth or restoration ability. But it is not true. The reason why so many people experience improvement of hair loss or thinning hair is because silicon works at a cellular level.

With healthy hair, old cells are constantly replaced by new cells through metabolism, so you would not suddenly get thinning hair or go bald simply by losing some hair. Likewise, hair maintains raven black if sufficient nutrient is penetrated into hair.

Hair loss or thinning hair is one of aging symptoms, but such symptoms sometimes

appear despite age. This is mostly because of lack of nutrient provided to cells due to aging symptom of blood vessels regardless of ages.

Hair growth or restoration agent is supposed to penetrate nutrient necessary for hair growth directly into the scalp or hair. However, in fact, the problem is not shortage of nutrients but nutrients do not reach cells of hair in many cases.

Water-soluble silicon itself does not have hair growth or restoration effect, but it helps cells provide nutrients necessary for metabolism to hair cells so that hair grows to become strong. Thus it revives hair.

Revive hair from inside

Here is an easy way to understand the mechanism of reviving hair.

Taking in silicon from the mouth promotes smooth flow of blood and also repairs capillary vessel cells.

Clogged capillary vessels due to aging or arteriosclerosis cannot distribute nutrients to each cell, aging symptoms appear on their hair and skin as well. By improve poor blood circulation, oxygen, enzyme, hormone, etc. necessary to revive hair cells are provided. Then it activates hair metabolism and starts circulation of growing new hair to replace old hair.

Such a mechanism revives hair at a cellular level.

Revive hair from the outside

Furthermore, by spraying water-soluble silicon directly to the scalp will promote osmosis of ingredient from outside so that it heightens the effect even more.

Try to mix silicon into shampoo first. It quickly removes oil and dust attached to the scalp due to the cleansing power of water-soluble silicon.

Furthermore, by adding silicon to conditioner or hair growth agent, osmosis power of water-soluble silicon helps ingredients penetrate deep into cells. At the same time, silicon is provided to hair cells that activate cells.

Thus water-soluble silicon supports hair growth and hair restoration both from inside and outside.

Gray hair becomes darkened or black in a short term due to better penetration of nutrients in many cases. Because of improved metabolism of cells, not only hair but also skin regains shininess and firmness.

Case Examples: Improves spots, wrinkles and sagging

Water-soluble silicon generates collagen

More people use skin water-soluble silicon for skin care, expecting its beauty effect. In fact, many women experience reduced spots and wrinkles or improvement of skin firmness with less sagging, moisturized skin, etc. Here is the explanation why these women use water-soluble silicon.

It is a common sense that women take collagen to get moisture or firmness of skin. However, no matter how much you eat food that is rich in collagen such as a Chinese soft-shell turtle, it is dissolved by gastric acid. So there is a doubt about efficacy of taking in collagen.

Nevertheless, many women, in fact, are delighted to see their skin becomes lustrous and resilient after eating collagen-rich food such as a Chinese soft-shell turtle or hormone supplements. On the other hand, the women who drink water-soluble silicon have right knowledge about collagen and try to support their beauty from the inside.

Nutrient of silicon is collagen mineral, and it is necessary to generate collagen in the body. It means, supplementing enough silicon helps smooth generation of collagen in the body and revive systemic cells.

Collagen binds cells to maintain elasticity of skin. Therefore plenty collagen in skin cells help one's skin remain moisturized, resilient and lustrous as beauty effect. Thus water-soluble silicon brings the beauty effect that is to generate collagen in the body.

Water-soluble silicon improves spots and wrinkles

So far, it was all about collagen to heighten beauty effect obtained from drinking water-soluble silicon. By spraying water-soluble silicon directly to the skin, many people experienced improvement of skin problems such as spots, wrinkles, acne, etc.

Silicon not only generates collagen but also promotes metabolism of cells to be reborn. You probably know that new cells make skin beautiful, but not many people know that silicon heightens such metabolism of cells.

Therefore taking water-soluble silicon will bring two internal effects such as generation of collagen and activation of skin cells. Besides you can directly spray it to the concerned area such as wrinkles or spots so that silicon penetrates from the outside and heightens the effect.

Just give it a try applying roughly 10-time diluted water-soluble silicon after facial wash. You will immediately notice your skin smooth and resilient.

Heightens beauty effect

Now at the end, we would like to introduce several ways of applying water-soluble silicon to heighten its beauty effect. This is the way to heighten beauty effects by utilizing several characteristics of water-soluble silicon such as osmosis, bacteriostasis, cleansing power, etc.

- Mix it with facial soap: Its cleansing power of silicon will remove dirt of the skin.
- Directly spray to the skin: Its bacteriostasis controls propagation of unwanted bacteria and prevents acne or pimples.
- Mix it with beauty essence: Its osmosis powerfully supports penetration of beauty ingredients.

How does it sound? These are the techniques to heighten beautify effect of water-soluble silicon. Women loyalty users actually experience the effects of water-soluble silicon in these applications.

Case Examples: Improves atopic dermatitis

Application of water-soluble silicon for skin inflammation treatment

Many cases are reported to Japan Silicon Cure Study Group that atopic skin inflammation or plaque psoriasis is improved by using water-soluble silicon. More dermatologists who became aware of such treatment results suggest combination of water-soluble silicon in the treatment, and many excellent treatment results have been reported.

First of all, water-soluble silicon does not have the action of treating skin inflammation. Then why are there more and more cases reported to show atopic dermatitis or plaque psoriasis cured?

Atopic dermatitis and plaque psoriasis cannot be attributed to specific causes, and they say it is difficult to completely cure these diseases due to lack of special medicines. Therefore, no definitive treatment has yet to be established at a hospital. Currently for oral and external medicines, steroid is used to alleviate itchiness and anti-inflammatory action is also applied.

However, these medical therapies are not necessarily effective.

In the case of eczema or skin diseases like atopic dermatitis or plaque psoriasis with uncertain cause, dermis cells are in the inflammatory state due to some kind of abnormal conditions occurring in the body. Atopic dermatitis is attributable to so many different reasons including allergic substance or harmful additives accumulated in the

body. Plaque psoriasis is considered to be the symptom of abnormal body function. However, no clear cause is specified for either disease, and it is one of the reasons for delaying treatment.

Now how does water-soluble silicon work on the skin?

Water-soluble silicon activates skin cells

Benefit of combined use of water-soluble silicon is the activation of metabolism at a cellular level. Silicon is considered to generate cells as well as collagen to bind cells and revive skin cells.

At the same time, water-soluble silicon activates every cell in the body. Since it affects not only dermis, skin and hair, but also bones, muscles, internal organs, blood vessels, etc. at a cellular level, it repairs defective functions to regain their original capabilities. It is said that the most important element in this process is a repair of blood and blood vessels. These two elements improve blood circulation in the body to provide sufficient nutrients such as oxygen and enzyme to each cell and to help the body function normally.

When the body function becomes normal, one's original immunity is heightened and skin inflammation can be controlled by self-cure ability.

Water-soluble silicon has the effect of excreting harmful substances or toxin accumulated in the body including allergic substances causing atopic dermatitis or harmful substances causing skin inflammation. Thus water-soluble silicon gets rid of the causes of diseases.

External approach to the skin

It was found that many of those who actually overcame skin inflammation not only drank water-soluble silicon by mixing with all kinds of beverages but also directly sprayed it to the affected areas.

Some people mix water-soluble silicon with external medicine and apply it to the affected areas to increase osmosis of medicine ingredients. Thus external approach also improves treatment results by penetrating both silicon and pharmaceutical ingredients at a dermis cellular level.

If you do not get much effect from the current treatment, it will be worth trying it.

Water-soluble performs miracles in treatments of various intractable diseases including skin inflammation.

Case Examples: Lowers blood pressure

Case example: High blood pressure improved in 2 months

A 53-year-old man with systolic blood pressure of over 180 mmHg had been on antihypertensive. Only two months after he started drinking water-soluble silicon to maintain his health, he found his blood pressure went down to 120mmHg. There are many other cases of improving high blood pressure reported. Water-soluble silicon itself does not have the effect of lowering blood pressure. It is merely one of nutrients.

Why did blood pressure go down in short term?

Since silicon excretes cholesterol attached to a blood vessel wall and dissolves neutral fat, it is acknowledged for the action of improving thick blood and promoting blood circulation. Furthermore, it contains ingredients to generate blood vessel cells, so it also has the action of fixing vessels hardened by arteriosclerosis, etc. into elastic, flexible vessels. As a result of drinking silicon every day for two months, blood vessels became more resilient and blood flow was promoted. Thus blood circulation was improved significantly and blood pressure lowered.

High blood pressure starts with thickening blood

The number of patients with high blood pressure keeps increasing every year despite advancement of medicine, and it is now the representative disease that cannot be eradicated by the modern medicine. Poor-balanced diet and lack of exercise increase lipid and carbohydrate concentration in blood thicken blood. This is the beginning of high blood pressure. Thick blood is not only difficult to flow, but also prone to cause arteriosclerosis, while badly damaging vessels. Poor blood circulation heightens pressure of a heart, and blood pressure goes up as a result.

Poor blood circulation accelerates aging symptoms

Human body consists of 60 trillion cells, and they are reborn through constant metabolism. Blood is the key for metabolism because it carries oxygen, nutrient and hormone necessary for metabolism to systemic cells through capillary vessels. Blood also plays a role of bringing back old cells and waste material to kidney in order to excrete them out of the body. If systemic cells are poorly supplied with blood, they will run out of necessary nutrient and oxygen that slows down metabolism and causes various aging symptoms. Aging not only appears in the visible symptoms such as skin or hair, but also takes place inside the body. Arteriosclerosis, for instance, is the aging symptom of blood vessels. Although silicon is said to perform miracle in intractable

disease treatment, it is not a special substance.

Two essential factors before starting high blood pressure treatment

#1 : Regenerates capillary vessels

Common for high blood pressure patients, capillary vessels are damaged due to arteriosclerosis. Arteriosclerosis is caused by thick blood, and damaged capillary vessels are fatal for high blood pressure treatment.

Human body consists of as many as 60 trillion cells, and they are reborn through constant metabolism. Blood bears nourishment, oxygen, hormone and antibody to cells for metabolism and also collect waste materials.

However, if capillary vessels are hardened by arteriosclerosis, blood will not reach cells that reduces activation of not only skin and hair, but also organs and blood vessel cells and inhibits their functions. Decreased function of organs directly leads to poor physical condition. When metabolism of capillary vessel cells slows down, progression of arteriosclerosis cannot be prevented and high blood pressure treatment effect decreases by half.

#2 : Conditions intestinal environment

Another important thing is the intestinal environment. Intestines play two roles; “absorbing nourishment” and “heightening immunity,” which are essential factors for treating high blood pressure.

Improving original immunity to regain healthy condition and naturally cure high blood pressure is the basic treatment. However, weakened intestines reduces absorption of nourishment, and the effect decreases by half even if you have meal to lower blood pressure or to prevent increase of blood pressure. Besides, medicines or supplement ingredients are not absorbed well by intestines, so the effect is reduced by half.

Silicon conditions capillary vessels and intestinal environment

As you see that high blood pressure treatment is related to capillary vessels and intestinal environment, and water-soluble silicon improves these two at the same time. Although silicon does not directly lower blood pressure, it has the action to promote smooth flow of blood and regenerate blood vessels.

Good bacteria and harmful bacteria exist in intestines by constantly taking the balance. When harmful bacteria become predominant, large amount of humic substances are produced that not only cause malodor but also negatively affect on health. Silicon has the power to activate good bacteria and maintains optimal intestinal environment. Thus, by supplementing deficient silicon, capillary vessels will be reborn and intestinal

environment will improve. As a result, blood pressure goes down in many cases. If you see enough effect of high blood pressure treatment, try to heighten the effect by taking silicon.

Case Examples: Lowers glucose level

Hemoglobin A1C decreased after 4 months of drinking silicon

A diabetes patient whose glucose level was high and hemoglobin A1C was over 9.5 had been on insulin to control blood glucose level, while continuing dietary and kinetic therapies for more than 5 years with no sign of improvement. He happened to encounter water-soluble silicon and kept taking it with meal or coffee more than five times a day. One month later, his HbA1c reduced to 6.5, and further reduced to 6.1 in another month. 4 months later, his HbA1c reached 5.1, and he decided to reduce insulin intake because of the risk of hypoglycemia. Thus there are many cases are reported to show improvement of diabetes by taking silicon.

Prevent three major complications associated with diabetes

Major complications associated with diabetes are retinopathy with a risk of blindness, neural disorder due to nerve necrosis, and nephropathy that requires dialysis. All of them are related to thick blood and blood vessels disorders. Due to continued high concentration of blood glucose level, a capillary vessel is clogged or ruptures. It may cause vision loss or kidney function disorder. Clogged capillary vessels also hinder supply of oxygen and nutrient to cells. Necrotic cell needs to be amputated. Silicon has two effects; to promote smooth blood flow and enhance blood vessels and it produces an effect of preventing diabetes complications.

Why does glucose level go down in a short term?

Silicon has performed numerous miracles in a treatment of diabetes and prevention of complications, however silicon itself is not acknowledged for the actions of lowering blood glucose level or treating diabetes. Silicon is merely one of essential nutrients for human beings. Because of its antioxidant action, lipolytic action and action of strengthening cells like blood vessels. Silicon dissolves neutral fat contained in blood or removes cholesterol attached to a blood vessel wall or lipid peroxidized, and instantly promotes smooth blood flow. In addition, its action of activating cells is considered to indirectly get rid of the causes of diabetes by helping recovery of damaged blood vessels or clogged capillary vessels.

Dramatic improvement of blood test result

Common for patients who improved diabetes by drinking silicon, their blood test results dramatically improved. Most of them successfully reduce neutral fat, for example from 227 to 129, and regain normal cholesterol level. Furthermore, they also improve obesity or metabolic syndrome, for example by reducing weight from 80kg to 55kg. Improved health condition can address chronic diseases such as diabetes and high blood pressure.

Silicon is essential as the first step for diabetes treatment

Dietary and kinetic therapies are essential for diabetes treatment, but unfortunately they hardly improve diabetes through such therapies upon instructions at a hospital. In fact, dietary and kinetic therapies are essential, but it is also necessary to help smooth blood flow and strengthen blood vessels to heighten the effect of these therapies. And taking silicon on a daily basis is the easiest, safest and most effective way as the first step of diabetes treatment to regain pre-diabetes health condition.

Two essential factors before starting diabetes treatment

#1 : Avoid blood vessel disorder

The first thing to pay attention to regarding diabetes is complications. Possible complications of diabetes such as vision loss, amputation, dialysis, etc. are vital. All of them are capillary vessel related disorders.

Blood with high glucose level causes arteriosclerosis in a vessel, and induces complications due to clogging or rupture of a vessel. Healthy capillary vessels can replace cells in every few months even if arteriosclerosis takes place, but in the case of diabetes, nourishment, oxygen, hormone and antibody necessary for cell replacement cannot reach each cell. Then there is no way to avoid blood vessel disorder.

#2 : Prevent deterioration of organ function

Another scary factor of arteriosclerosis of a capillary vessel is the impact on organs. Important organs like kidney or liver are so called aggregates of capillary vessels. When diabetes progresses, capillary vessels are damaged and kidney and liver functions decrease significantly that may require dialysis. Damaged capillary vessels of each organ not only makes it difficult to maintain a healthy life, but also further aggravates diabetes.

Silicon power recovers capillary vessels

Although silicon does not have an action of improving diabetes, it removes neutral fat or active oxygen contained in blood, and dissolves and excretes cholesterol attached to a blood vessel wall. Furthermore, it has a power to activate capillary vessel cells and

regenerate strong, elastic vessels. For diabetes treatment, it is necessary to supplement deficient silicon on a daily basis to refresh capillary vessels and deliver oxygen, nourishment and hormone to every cell. If you do not get the effect from the current diabetes treatment, drink silicon to increase its effect.

Diabetes, a lifestyle-related disease not eradicated by modern medicine

Ministry of Health, Labor and Welfare announced that the number of diabetes patients is increasing every year and it is said the number is 20 to 30 million including those who are likely to get diabetic. It is because modern medicine cannot completely cure diabetes and there is no other way of treating it but controlling blood glucose level through medication and insulin injection.

There are unexpectedly many diseases that cannot be eradicated by advanced modern medicine, such as cancer, high blood pressure, etc., and diabetes heads the list. There are many case reports that they first become aware of the disease when diagnosed as severe diabetes, as it shows no visible symptom at first and the condition aggravates without knowing.

The best is to discover it at an early stage and prevents it from developing diabetes, but once suffering from diabetes, it is necessary to understand the disease properly and improve one's lifestyle to prevent further aggravation.

Case Examples: Eliminates armpit odor, sweat odor and bad breath **Water-soluble silicon sterilizes bacteria responsible for odor**

More people appreciate malodor removal effect of water-soluble silicon by spraying 10-time diluted water-soluble silicon to concerned areas such as underarm, between toes, behind an ear, side of the nose, groin, etc., where unwanted bacteria are likely to propagate. Try it, and you will find odor really disappears.

There are many cases of malodor removal reported, indicating the bacteriostasis action of water-soluble silicon.

Sweat odor or aging odor attributes to propagation of unwanted bacteria. Bad breath is caused by gum disease fungus or unwanted bacteria. Thus propagation of responsible bacteria for odor causes microbism (oxidation) and releases malodor.

Water-soluble silicon is acknowledged for its bacteriostasis such as instant sterilization and propagation control of *Bacillus coli* and unwanted bacteria. Using this action, you can instantly sterilize responsible bacteria for armpit or sweat odor by spraying it to the concerned areas.

Put a few drops of undiluted water-soluble silicon solution to your toothbrush for

brushing as a countermeasure for bad breath. Since it sterilizes unwanted bacteria or gum disease fungus, you can also address a periodontal disease using water-soluble silicon on a constant basis.

It is also an effective countermeasure for pet odor, and a growing number of people use it for their pet animals. Get double efficacy of sterilization and malodor removal by letting your pet drink it, brushing him/her after directly spraying it, or cleaning pet items with water-soluble silicon.

Thus applications of water-soluble silicon further extend.