

NEPHRITE (JADE)



WOOJIN
SERICITE

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OAH

international



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About NEPHRITE(JADE)

Gems have the property of radiating far-infrared rays and converting positive ions into negative ions. The gems, crystals of minerals, help vitalize the human body, improve hormone function, and stabilize the autonomic nervous system by stimulating **blood circulation and oxygen inflow**.

In addition, the natural color of the gem has healing energy which is effective in psychological and mental healing.





About NEPHRITE(JADE)

◆ The Birthstone of May

◆ Dongui Bogam^[1]

Jade Powder is effective in the digestive system as it improves the intestinal organs and easily releases waste from the body removing heat from the stomach. In addition, it is good for stopping thirst or chest pain caused by bronchial asthma and fever. It is stated that jade powder is good for the throat by helping the lungs function smoothly and vocalization.¹⁾

^[1] The Dongui Bogam is a Korean book compiled by the royal physician, Heo Jun (1539 – 1615). The book is regarded as important in traditional Korean medicine and is one of the classics of Oriental medicine today. As of July 2009, it is on UNESCO's Memory of the World Program.

◆ Chinese Medical Books : [Bonchogangmok] & [Sinnongbond]

A fresh medicine for longevity / It is also regarded as the most precious of all jewels as a symbol of the emperor's magical ability, perfection, and immortality.¹⁾

◆ Jade is used to promote the body's metabolism by emitting far infrared rays, prevent various adult diseases, and contains a lot of minerals, drawing attention as cosmetics, anti-aging and skin beauty.²⁾

◆ Indio in North and South America were treated by properly heating the Jade/Nephrite when they had stomach pains and scrubbing the sore spot, while native Micronesians such as Australia and New Zealand treated the disease in the same way as Indio.³⁾

Reference:

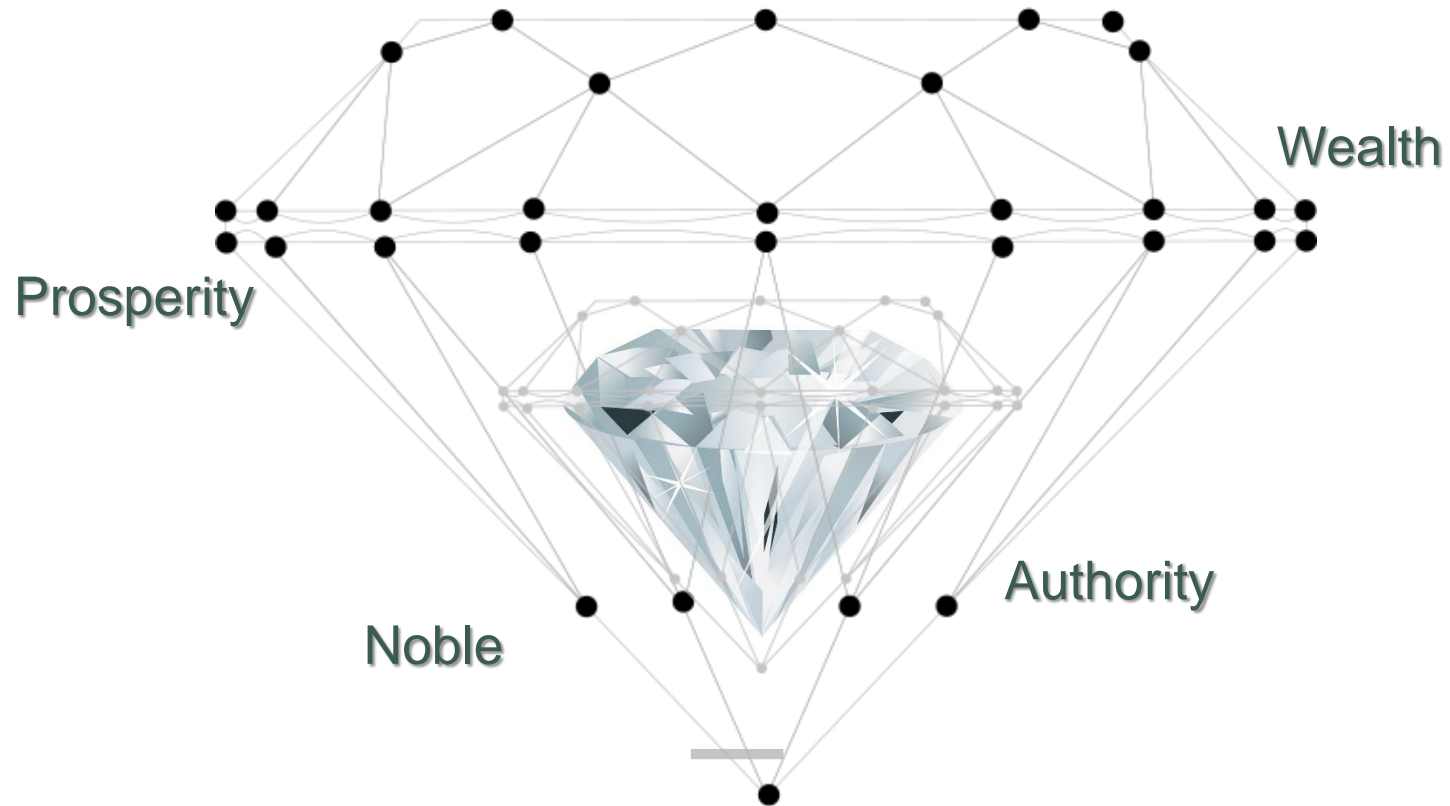
1) Ha, Kyung-Suk. A Study on the Possibility and Limitation of the Market for Jewelry by Using Gemstone Therapy by Hildegard .Journal of the Korean Gems and Jewelry, Vol.1, No.2, Dec. pp.156-165.

2) Kim Ga-Bin. Comparative Studies on Gem Therapy according to Physical Constitution. Thesis. 2012.

3) Jin Su-Woong, Gems and Well-being, Seoul:Ddangui saramdeul, 2007.



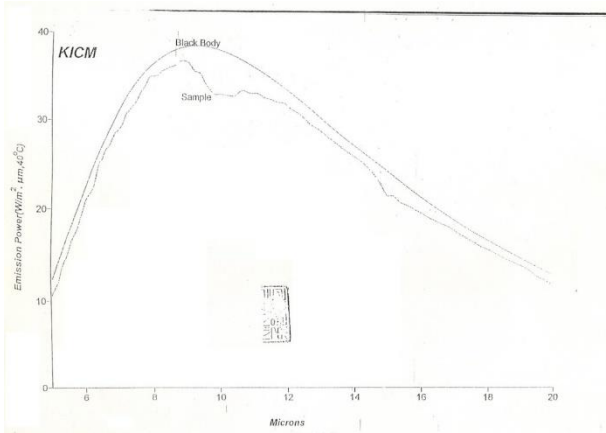
Symbol of NEPHRITE(JADE)





Effect of JEWEL / MINERAL

◆ Far-Infrared Radiation



Far-infrared rays penetrate deep into the skin and boost immunity by activating tissues and promoting metabolism.

"The answer is that jewelry is a material that emits far-infrared rays. Far-infrared is a long-wave ray from the sun. When one wavelength meets another, they react to each other if the frequencies are the same. The wavelength of far-infrared rays is the same as the wave and movement that flows through our bodies, which boosts our human rhythm."

*Reference. Kyung-Suk Ha, 2010, <A Study on The Influence of Gemstone Therapy by Hildegard on Elderly Woman's Mental State>

◆ Effect on Skin

Activating metabolism to detoxify and purify the skin to enhance beauty effects by making the skin clear and clean

◆ Mineral Ion Contained

It has alkaline mineral ions to help keep your skin shiny.



Jewel Color Therapy

[Luxury, Dignity, Creativity]

Shades of purple have been used to help calm people with nervous or mental imbalances. A very spiritual color, it is traditionally worn by the clergy and denotes spiritual peace and awareness.

[Loyalty, Wisdom, Confidence]

Blue is cool and calming, inspiring mental clarity and inner peace.

It gives us a sense of security and has been shown to lower blood pressure by calming the autonomic nervous system.

[Harmony, Freshness, Fertility]

We instinctively lean towards green when in need of balance or harmony, which explains the popularity of gardening.

Green is also good for the heart as it aids relaxation.

[Courage, Passion, Power]

Known to be able to raise blood pressure, red can strengthen and stimulate the body. Our blood contains red blood corpuscles, which provide nourishment to our organs.

[Energy, Happiness, Fascination]

The color orange has an energizing feel, promotes confidence and well-being. Encourages creativity and passion, and has beneficial effects on digestive and reproductive systems.

[Joy, Happiness, Mental Activity & Muscle Energy]

Yellow is an energizing and uplifting color that encourages positivity and inner power. It strengthens the nervous and digestive systems, calming butterflies in the stomach or stress-related tension in the abdominal area.

PURPLE

RED

ORANGE

BLUE

GREEN

YELLOW



Applicable Industries

Cosmetics



Textiles



Yarns/Fibers



Home Decor





Reference Journal: [Cosmetics]

[Composition & Function of Nephrite(Jade)]

Ingredient	Reported function on the skin
SiO ₂	Remove waste deposit in the skin pore
MgO	Pore-minimizing and skin-lifting
CaO	Stabilizing skin metabolism, wound symptom alleviation
Al ₂ O ₃	Supply oxygen on the skin

*Reference: Min Ji Kim, Hye Ja Lee, Kyung Man Hahm, Young Baek Kim, and Jin Oh Park. Effect of Coated White Jade Powder on Cytotoxic and Oxidative Stress induced by Heavy Metals(Cd, Pb). The K-Beauty Science. 2019.06.24

EcoWalk. The Truth About Jade Rollers: What Does Science Say? (part I)

Nephrite or Jadeite Mineral Powder: Skin Benefits & Blue Light Protection

As mentioned above, it is now known that Nephrite jade is calcium magnesium iron silicate mineral. According to chemical analysis Nephrite may contain traces of elements such as zinc, magnesium, iron, copper, selenium, chromium, manganese, cobalt and more. All these elements are beneficial to human body. When such minerals are absorbed by human skin they play an important role in enhancing immune functions and activating cells and tissues. Today, Nephrite powder is used in accelerating healing, reducing scar tissue and improving skin elasticity.

*Reference: SHEEBA MAGAZINE. June 2019 Vol 1,
<https://www.sheebamagazine.com/articles/ecowalk-the-truth-about-jade-rollers-what-does-science-say-part-i/>



Reference Journal: [Cosmetics]

The most significant benefit of Nephrite powder is its ability to protect skin of invisible (and visible) but highly damaging blue light (natural or artificial, i.e. LED). Our cell phones, tablets, TVs and computers emit blue light that damages hyaluronic acid, collagen and elasticity in the skin. In other words, blue light causes premature aging. In 2005, The Journal of Biological Chemistry published **a study** concluding that visible blue light can cause cell dysfunction, mitochondrial DNA damage and induce free radical production in epithelial cells. All this leads to skin cellular aging, age related pathologies and even tumor growth. In 2016, the use of Nephrite jade powder in cosmetics to block blue light was patented. A group of Korean inventors state therein that Nephrite powder (also known as oxide powder) is capable to reflect the difficult blue light that damages our skin. Patent for “Cosmetic composition containing jade powder for blocking blue light” can be seen **here**.

As you can see, Nephrite (and Jadeite) powder is a great substitute to irritating talc in various cosmetic products. It acts as anticaking agent and at the same time **shows anti-inflammatory activity**. By radiating far infrared rays it warms the skin and stimulates microcirculation. This is all you need – a jade roller with natural Nephrite!

Worth mentioning, that pure white Nephrite powder has antipollution effect. Also, jade mineral powder is an effective exfoliant to remove dead and dry skin. Today, jade powder is used in face creams, anti-aging products, sunscreen products, makeup products, lotions, tonics and other treatments for hair and face. Actually, a lot of cosmetic brands are using Nephrite gem powder as an ingredient, namely **Estee Lauder, Aman , Praia, Bare Minerals, La Mer, Crushxo, Sulwhashoo, Luma** and many more.

AUTHOR: SHEEBA MAGAZINE|ARTICLE PUBLISHED: JUNE 2019.|CANNOT BE COPIED OR REPUBLISHED WITHOUT WRITTEN PERMISSION BY SHEEBA MAGAZINE

*Reference: SHEEBA MAGAZINE. June 2019 Vol 1,
<https://www.sheebamagazine.com/articles/ecowalk-the-truth-about-jade-rollers-what-does-science-say-part-i/>



Reference Journal: [Cosmetics]

“Physicochemical Properties of Jadeite Powder and Its Application to Cosmetic Formulations.”

- Kyoung Mi Kim, Yong Woo Kim, In Gi Hong, Soo Nam Park

In this study, physicochemical properties of the natural jadeite powder were investigated and also the wash-off pack and liquid foundation containing the jadeite powder were prepared. In addition, each of these formulations was evaluated by various functional effects, sensory evaluation, stability and skin safety. In the wash-off pack, **the far-infrared ray emissivity and radiation energy values increased as a function of the jadeite powder content.** At a 3% jadeite powder content, **the skin temperature increased by about 0.5 °C** when the jadeite powder-containing formulation was applied to the skin. Besides, the chroma of the liquid foundation containing the jadeite powder **more clearly expressed the original color of the skin.** Moisture content measurements of the wash-off pack and liquid foundation containing the jadeite powder showed **the highest moisture uptake** of 5.0% and 63.0%, respectively. In sensorial test, the wash-off pack formulations **containing the jadeite powder demonstrated improved affinities toward a skin, adherence, and moistness and combatted itching.** The liquid foundation containing jadeite powder showed also improved affinities except for the coverage when compared to control formulations. Furthermore, the stability evaluation for 8 weeks revealed neither discoloration nor separation phenomenon for the formulations containing the jadeite powder. Moreover, the pH was found to be stable up to 8 weeks and the viscosity up to 4 weeks. Skin safety assessments showed that **all formulations containing the jadeite powder were non-irritating. These results suggest that the jadeite powder as an inorganic pigment may serve as a new multi-functional cosmetic ingredient with stability and safety.**

*Reference:

Kyoung Mi Kim, Yong Woo Kim, In Gi Hong, Soo Nam Park. Physicochemical Properties of Jadeite Powder and Its Application to Cosmetic Formulations. Applied Chemistry for Engineering. Vol.29 No.1, 2018.



Application: [COSMETICS]



Kill Cover Glow Cushion ¹⁾



24K 골드, 꿀, 6가지 주얼 콤플렉스가 만나 완성한
트리플 로얄 광채 피부



All Day Volume Essence Pact ²⁾



Gwangboon Toneup Cream ³⁾



02. 360도 보석 광채



7가지 주얼리 파우더

자수정가루, 호박가루, 산호가루, 연옥가루, 진주가루, 루비가루, 토르말린 주얼리 파우더로
고급스러운 광이 나는 메이크업을 연출할 수 있습니다.

Magic Essence Mist Cushion ⁴⁾



1) CLIO, http://www.cliocosmetic.com/ko/product/view.asp?product_cd=P201902135174, 2020.10.25

2) Tonystreet, https://tonystreet.com/shop/prod/shop_prod_product_view.do?i_sProductcd=TM20200146900015665&i_sTypecd=0001, 2020.10.25

3) MIBA, <http://www.mineralbio.co.kr/>, 2020.10.25

4) APRILSKIN https://aprilskin.com/product/detail.html?product_no=1010&cate_no=48&display_group=1, 2020.10.25



Reference Journal: [Textiles]

“Study on Natural Minerals Applying in Developing New Health Textiles”

< Healthcare Textiles >

- Xiaohong Shen, Xiangji Wu, Hailing Wei, Weiping Du

Jade has been preserved as health clergyman since ancient times; it is rich in minerals and trace elements which are beneficial to human body, such as Zn, Mg, Fe, Cu, Se, Gr, Mn, Co and so on. Mineral medicine research prove that jade can produce the high strength photoelectric effect, can focus on energy storage in the processing process, form a magnetic field, and can produce beneficial to human body after wearing. In addition, special molecular structures of jade can emission the far infrared electromagnetic waves in the wavelength range from 8 to 15 microns which can be absorbed by human body, the electromagnetic waves have very good biological effect on the human body. **Jade fiber is a new type of our self-developed health nano fibers, long-term wearing jade fiber products can help to improve blood circulation, promote metabolism, timely discharge wastes in the body, make human cells and tissues be more dynamic, to achieve cooling blood, reducing blood pressure, relieving fatigue and other health functions.**

*Reference:

Xiaohong Shen, Xiangji Wu, Hailing Wei, Weiping Du. Study on Natural Minerals Applying in Developing New Health Textiles, Journal of Minerals and Materials Characterization and Engineering, 3, 248-254. 2015.



Reference Journal: [Yarns/Fibers]

“Effect of Jade Nanoparticle Content and Twist of Cool-Touch Polyester Filaments on Comfort Performance of Knitted Fabrics”

< Effect of Jade Nanoparticle Content >

- Yang Yang, Xin Yu, Xungai Wang , Yanlin Sun, Peihua Zhang and Xin Liu

Many studies have reported that adding nanoparticles with great thermal conductivity into polyester yarn is an effective way to improve the thermal transfer performance of its fabric. Typically, jade nanoparticles have been widely used to promote the thermal conductivity of polyester fibers. The main ingredients of nano-jade powder are silicon dioxide, magnesium oxide, aluminum oxide and other small amounts of inorganic salts. The thermal conductivities of silicon dioxide, magnesium oxide and aluminum oxide are 25 W/m/K, 36 W/m/K and 26–40 W/m/K, respectively, and they are much higher than polyester (0.084 W/m/K). A cooling and moisture wicking fabric was fabricated by jade-containing polyester and cotton. Furthermore, jade is rich in minerals and trace elements, which are beneficial for human health.

Jade nanoparticles improved the thermal transfer capacity, and lower twist level of cool-touch yarns was beneficial for achieving moisture cooling properties of knitted fabrics. Therefore, adjusting the jade content and using reasonably low twist yarns are effective ways to develop knitted fabrics with great thermal transfer and moisture cooling properties.

*Reference:

Yang Yang, Xin Yu, Xungai Wang , Yanlin Sun, Peihua Zhang and Xin Liu. Effect of Jade Nanoparticle Content and Twist of Cool-Touch Polyester Filaments on Comfort Performance of Knitted Fabrics. Textile Research Journal 90(21-22), 2020.



Formulation

[POWDER]



[EXTRACT]



- ✓ Extract extremely small amount of moisture included in jewel itself
- ✓ Water used during the manufacturing process after certain treatment



Report of Gem Identification: NEPHERITE(JADE)

REPORT OF GEM IDENTIFICATION

감별 결과 보석명
(Test Conclusion)

Natural Nephrite
천연 연옥

중량 (Carat Weight) 0.54 CT

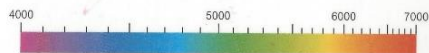
색상 (Color) White

투명도 (Transparency) TL

형태 (Shape) Cabochon cut

치수 (Size) 5.3 mm

보조석 (Side Stone) * * *



감별 방법
(Method of Identification)

- | | |
|---|--|
| <input type="checkbox"/> 굴절율
Refractive Index | <input type="checkbox"/> 분광검사
Absorption Spectrum |
| <input type="checkbox"/> 편광성
Optic Character | <input type="checkbox"/> 형광성
Fluorescence |
| <input type="checkbox"/> 다색성
Pleochroism | <input type="checkbox"/> 비중
Specific Gravity |
| <input checked="" type="checkbox"/> 확대검사
Magnification | |

No. B60016

Date. 2018. 01. 03.



참조 (Comments) Loose Stone

Identified by : Lee, Sang suk



버진보석감정원

Virgin Gemological Laboratory

원장 이상석



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<http://www.virgindia.co.kr>

Woojin Sericite is purchasing directly from mines and discovering overseas companies for stable supply of raw materials.

Also, **Woojin Sericite** is devoting itself to discover of good raw materials through equipment inspection and screening by the Korea Institute of Geoscience and Mineral Resources for 3 months when purchasing raw minerals.



Contact



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If you have any inquiries about products,
feel free to contact to **OAH International**.

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