

TECHNICAL DATA SHEET

Product Name: Charcoal Powder

INCI Name: Charcoal powder

CAS: 16291-96-6

Synonyms: Activated Charcoal, Medicinal Charcoal, Activated Carbon, Carbon Black, Vegetable Charcoal, Carbo Vegetabilis, Charcoal Powder, Black Carbon

Chemical classification: Chemical element

Functional category: Abrasive, Absorbent, Colorant, Opacifying/Pearlizing Agent

Origin: China

Description: Charcoal powder is a fine, black powder with a smooth texture. Particle size can vary, but it is generally very fine, often less than 100 micrometers, which allows for easy blending into cosmetic formulations. Activated charcoal has a large surface area due to its porous structure, which enhances its ability to adsorb impurities and toxins. The powder is typically odorless. Charcoal powder is insoluble in water and most solvents but can be dispersed in liquids, forming a suspension. One of the key physical properties of activated charcoal is its high adsorption capacity, which allows it to bind and remove impurities, toxins, and excess sebum from the skin and hair. It is very useful in the production of soaps, shampoos, and as a component in body scrubs.

Benefits:

- **Detoxification:** Charcoal powder has a high adsorption capacity, enabling it to bind and remove toxins and impurities from the skin. Due to its large surface area and porous structure, activated charcoal can adsorb various toxins, impurities, and bacteria. When applied to the skin in the form of a mask or cleansing product, activated charcoal attracts and binds these impurities, which are then removed by rinsing off the product.

- **Sebum Control:** Activated charcoal has the ability to adsorb excess sebum (natural oil produced by the skin). Sebum can clog pores and lead to acne and other skin problems. When products containing charcoal powder are applied to the skin, activated charcoal absorbs the excess oil, reducing oily shine and preventing clogged pores.

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• **Skin Clarity:** Due to its adsorption properties, activated charcoal effectively removes dirt, dead skin cells, and other impurities from the surface of the skin. This helps maintain skin cleanliness. With regular use, pores become less visible, and the skin looks smooth and clear.

• **Anti-inflammatory Properties:** Activated charcoal can act mildly anti-inflammatory due to its ability to remove toxins and impurities that can cause skin irritation and inflammation. When these harmful substances are removed, inflammation is reduced, resulting in less redness. Additionally, activated charcoal can help maintain balanced skin pH, further contributing to reduced inflammation and irritation.

Usage: Add to formulations in its basic form. It easily incorporates into formulas. The typical usage level is between 1-10%. For external use only.

Application: Used in the production of cleansing products, soaps, shampoos, scrubs, baths, creams, face masks, colored cosmetics, and toothpastes. The external mechanism of action is similar to the systemic action – the porous surface of activated charcoal binds toxins and impurities from the skin and teeth, thereby improving their health and appearance.

Animal Testing: The substance has not been tested on animals.

GMO: Not GMO

Vegan: Does not contain animal-derived components.