

HEALTH & BEAUTY

ISOLA D'ELBA - FIRENZE - PARMA

La Filosofia del D

ALL YOU NEED TO KNOW ABOUT OZONE



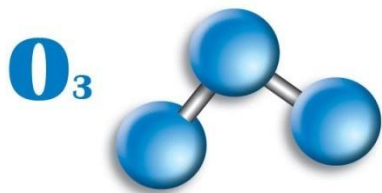
Linea cosmetica a base di ozono



www.ozono-hb.it

www.ozono-hb.it

About OZONE (O₃)



OZONE - chemically O₃ - is an unstable gas whose molecular composition is formed by 3 oxygen atoms, and for this reason it is also defined "active oxygen". The ability of ozone to kill and inhibit pathogens is known until the Nineteenth century. A few micrograms of ozone per liter can effectively kill germs, viruses and bacteria, as it acts as a

bactericide by destroying the external protein barrier of organisms. For this, and its other important properties, ozone is successfully used in the medical-health field with so-called ozonotherapy.

A complete cosmetic treatment allows the treated subject to obtain concrete and tangible results, without resorting to products of a different nature. In addition, during the massage ozone penetrates through the skin by oxidizing the lactic acid and other toxins present in the dermis, relieving pain.

How it generates ?

The ozone molecule is simply a molecule of oxygen enriched with an extra atom of oxygen, obtained through a process of high voltage electricity, according to the reaction: $3\text{O}_2 \rightarrow 2\text{O}_3$.



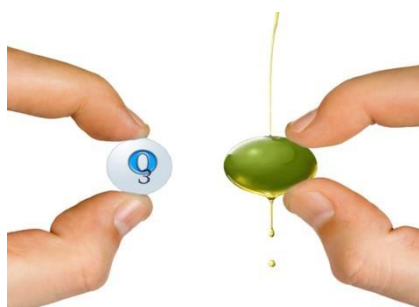
Ozone is produced naturally and artificially:

- **Naturally:** Ozone is produced naturally through certain types of chemical reaction. Lightening and the photochemical effect of the sun's ultraviolet rays in humid environments, especially at sunrise and sunset; the highest concentrations are found at sea and in the mountains. Formed as a result of the high voltages

lightning is a major producer of ozone. The fresh, distinctive scent after a thunderstorm is caused by the formation of this gas.

- **Artificially:** can be produced artificially by replicating the same phenomenon that occurs in nature. "Ozone generators" are machines that produce the gas by means of extremely high voltages and radiation with UV rays. In both methods the bonds between the oxygen molecules is broken. Ozonizers, use both air and pure oxygen, the latter producing a greater amount of ozone.

Vegetable ozonated oil



The relatively short life of ozone in the air means that it can not be stored in large quantities and this feature, in some cases, can impose limits in its applications.

In olive, sunflower, flax, hemp and jojoba oils, ozone is encapsulated in the molecular structure of the oil in the form of ozonide compound and it stabilizes, amplifying its duration, but it should be stored at low temperature.

The oil, having a high content of essential fatty acids, is the only carrier that allows the ozone to remain in a "nascent" active state for a long period of time.

The process of microencapsulation of ozone takes a few days of continuous bubbling and the result is a strong, dense oil, rich in peroxides. When ozone is bubbled through the oil continuously and for a long time (at least 3 or 4 weeks), this oil gels becoming an ointment from the amazing healing properties.

The application of ozonated oil on the skin administering a small concentration of ozone and lipids by oxidase at the tissue, releasing it gradually and producing biological action stimulates blood circulation

About OZONE (O₃) properties

The main properties of ozone, scientifically proven, are:

- **Cicatrizing and regenerating of the mucous membranes**, as ozone favors the cicatrization process, stimulating the formation of granulation tissue. The topical use of this oil allows the ozone to permeate the tissues and treat cuts, burns, ulcers, lesions and infections.

- **Antibacterial**, the bactericidal action of ozone is based on direct mechanisms, inducing the destruction of the cell wall of the bacteria themselves, through peroxidation reactions (oxidation process thanks to molecular oxygen) of phospholipids and proteins thereof, and indirect, by activating endogenous defense mechanisms, in particular by increasing the metabolic activity of phagocytes, that is, those cells that ingest extracellular material, such as the bacterial, during their process.

- **Antiviral**, ozone is able, on enveloped viruses, ie the envelope of some types of virus, to act at the level of viral receptors, inducing an altered electronic configuration of the binding site. The virus is unable to penetrate the target cell, thus blocking the replication cycle.

Anti-inflammatory: ozone induces a decreased synthesis of prostaglandins, inflammation promoting acid, thereby reducing the release of biogenic amines at the point of inflammation.

Analgesic: obtained thanks to the greater flow of oxygen at the site of inflammation, and oxidation of the chemical mediators that determine the painful stimulus.

Immunomodulatory: ozone exerts a cytokine inducing effect (cytokines play a key role in the regulation of the immune system) thus promoting the development of the immune system.

Applications

Ozonated oil, although registered as cosmetic and not as a drug, can be used for various disorders including:

Acne: cleanse the face with ozonated water and apply ozonated oil, or cream containing it, 2 times a day. This helps to implement the circulation and then detoxify.

Dry and chapped lips: apply ozonated oil directly to the lips, to restore the wound.

Excoriations and cuts: ozonated oil is the first aid remedy for all types of abrasions and cuts, thanks to its excellent antiseptic healing properties. It has a slightly anti-static effect and recalls the blood supply to the damaged area.

Dermatitis / eczema / psoriasis: apply ozonated oil, or product containing it, 2 times a day.

Bee and mosquito bites: apply to the affected area and massage.

Onychomycosis: cut the nail as much as possible and apply the oil 2 times a day. The fungus can not survive in the presence of active oxygen.

Herpes: apply 2/3 times a day until complete healing. Ozonated oil quickly helps skin healing.

Burn and sunburn: ozonated oil helps skin re-epithelialization, and also reduces pain and inflammation.

White spots caused by fungi: apply to the affected area 2 times a day.

Cellulite: apply directly on the affected area ozonated oil or specific product that contains it, to reduce the visibility of the panniculopathy. Help with massages, sauna or steam bath.



OZONO Health & Beauty

A Formula for Success: The sun and nature of the Island of Elba, all the charme of Florentine art and fashion and the craftsmanship of Parma in a winning mix.

A Wellness Philosophy



Our **cosmeceutical line** represents a completely innovative method for skin care, combining the best ingredients of top cosmetology with the properties of ozonated oil, obtained and stabilised according to an exclusive patented process.

The craftsmanship of our products, based on a long tradition in the field of cosmetics, enriched with therapeutic properties of ozone allows the oxygenation of the skin, regenerating it, combatting blemishes, and protection it from external agents.

This is a real innovation in this field, since ozone products for face and body care go far beyond traditional cosmetics, framing themselves in the so-called "cosmeceutical", or technological or functional cosmetics.

The ozonated oil in fact keeps ozone microencapsulated in it for a long time, and the application of the products containing it allows the release of ozonates, the O₃ derivatives, which perfuse up to the dermis and feed the microcirculation. This process promotes the production of collagen and elastin, as well as the cellular exchange of the epidermis, with a visible anti-aging effect.

Therefore, the use of products containing ozonated oil, in dermocosmetic practice considerably prevents cell aging, creating an antioxidant action, eliminating skin blemishes and small wrinkles, hydrating, protecting and making the epidermis more bright, elastic and pleasantly velvety.

Our **OZONO Health & Beauty** products are hypoallergenic, they do not contain parabens, paraffin and petroleum derivatives, they are not aggressive and respect the delicacy of the skin.

The line is dermatologically tested by the Center of Cosmetology of the University of Ferrara.