

Protection against UVA / UVB

Everyone knows that the sun is needed for the proper functioning of living and even though a useful addition to the action also causes many adverse effects. Technical progress and the civilization made great havoc in our environment. Stratospheric ozone layer is irreparably damaged, causing the earth to reach more and more harmful radiation.

There are three types of radiation: UVA, UVB, UVC. Long UVA rays, whose scope is 315-380 nm, present in sunlight and solariums not cause reactions in the skin, but much damage elastic fibers and collagen. Like the infrared rays destroy the capillaries and cause abnormal blood supply to the skin. As a result, skin becomes less well nourished and is aging much faster. UVB rays are the shorter-range 280-315 nm taken up by cells of the epidermis. Cause severe erythema and burns. Play a decisive role in lesion formation and skin cancers. Some of them penetrates the dermis damaging the elastic fibers. Tan skin, but also contribute to the formation of spots. UVC rays have a range of 100-280 nm and the highest energy. Almost completely absorbed by the ozone layer. If, however, reach the skin that are absorbed mostly by the stratum corneum. We are all constantly exposed to the adverse effects the sun so we must, if possible safely enjoy its advantages. Therefore, creams created with a filter. Preparations with a protective filters basic cosmetics at protecting the skin from the adverse effects of the sun and premature aging. Also absorbing filters used oktorylenu compounds that protect against UVB rays, as well as trisiloxan drometrizolu (silatrisol) and its derivatives, which protect against UVA and UVB rays. It is important that the cosmetic product contained butyl protective methoxyolibenzoylometane or avobenzon. Preparation of the filter should have at the antioxidants, is mostly used vitamin E or tocopherol, and various plant extracts rich in protective flavonoids. Creams to the certain special substances added protection against adverse effects of dust and pollutants.