Cosmetotextiles - Sometimes the Simple Things Work

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Editorial

We all hope for healthy, smooth and beautiful looking skin. Many of us spend considerable amounts of money and time looking for products that can keep our skin looking young and radiant. The cosmetic industry is flourishing and new moisturizers, cleansers and beauty products constantly emerge in the market. The vast majority of products require active implementation – a daily care routine of cleansing and moisturizing of the facial skin, for example.

In recent years a new approach to skin care is emerging – cosmetotextiles. This approach transforms daily ordinary textile products into cosmetically active products, eliminating the need to actively apply the cosmetic substance. We all use textiles, both during the day – our clothing, and during the night, our bed linens. These textiles are designed mainly to give us protection, warmth, and support. Novel technologies established in the last two decades gave rise to the development of sophisticated technical textiles, such as breathable textiles, sensing textiles, medical textiles, antimicrobial textiles, and more recently, cosmetotextiles.

Cosmetotextiles combine textile materials with cosmetic active substances. The cosmetic substance is affixed to the fabric of clothing or bedding so that when in contact with human body and skin the active substance is transferred from the textile onto the skin for cosmetic purposes [1]. Current cosmetotextiles in the market claim to be moisturizing, cellullite reducing, perfumed, body slimming, and new moisturizers, cleansers and skin care products are the cosmetic industry's primary role in skin formation, elasticity and to improve skin elasticity in double blind controlled trials [5-7]. A second example is the incorporation of copper oxide micro-particles into textiles, sensing textiles, medical textiles, antimicrobial textiles, and more recently, cosmetotextiles.

The incorporation of cosmetic active ingredients into textiles can be achieved by several evolving technologies at the stage of raw material textile processing before the fiber extrusion, at the yarn/fiber, fabric or end product stage [1]. One example is the incorporation of copper oxide micro-particles at the stage of raw material textile processing before the fiber extrusion, at the yarn/fiber, fabric or end product stage [1]. One example is the incorporation of copper oxide micro-particles at the stage of raw material textile processing before the fiber extrusion, at the yarn/fiber, fabric or end product stage [1].

Each technique has its pros and cons. For example, the advantage of microencapsulation is the protection of the active substance from the environment, i.e., from heat, low or high pH, oxidation, evaporation, and degradation. However, a potential disadvantage of microencapsulation is the potential allergenicity or toxicity of the microcapsules' shells once they are broken and released onto the skin.

Several questions need to be addressed when examining each cosmetotextile per se: is the claimed cosmetic effect achieved following the product use; have the claimed effects been demonstrated in clinical/cosmetic independent controlled studies; do you need to use the product daily to see an effect; for how long do you need to use the product to see an effect; is the cosmetic effect sustained following laundry (since cosmetotextiles are designed to be used as regular textiles, and as such, they are regularly laundered); for how many washings is the cosmetic effect maintained; is the product safe when used for prolonged periods of time; is it environmentally friendly, and what is the durability/shelf life of the product. In light of these questions, the regulatory bodies are developing appropriate standards to evaluate the efficacy, safety and durability of cosmetotextiles [1].

The number of companies producing cosmetotextiles and the number of different active ingredients being incorporated into textiles are constantly growing. The technologies used are being optimized to ensure sustainability and optimum cosmetic effects. Cosmetotextiles is a very attractive relatively new field gaining public acceptance by which regular textile products are converted into extraordinary cosmetic products. The idea of using your pillowcase or blouse and by doing so improving the well-being of your skin, not long ago was far-fetched, but today it is a reality. Sometimes the simple things work.

References


