



INCREASED SUNSCREEN RETENTION WITH FLORAESTERS K-20W® & FLORAESTERS K-100®

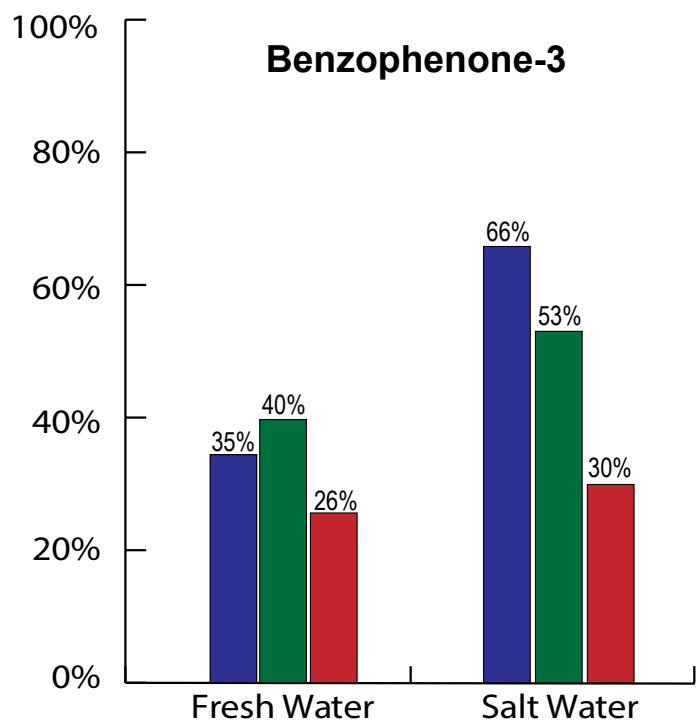
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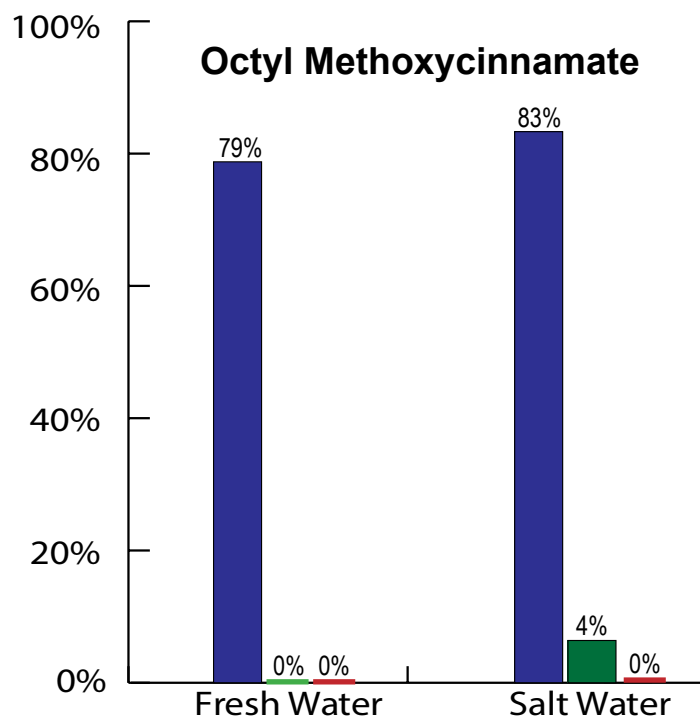
Floraesters K-20W Jojoba & Floraesters K-100 Jojoba Increase the Retention of Sunscreens on the Skin Post-Water Immersion Compared to a Known Fixative Ingredient

The test solution contained 0.5% benzophenone-3, 1.9% octyl methoxycinnamate, and 0.75% octyl salicylate (in ethanol) and one of each of the following ingredients: 0.2% K-100, 1% K-20W, or 2% Dermacryl® 79. A known amount of test solution was applied to the forearm followed by an 80 minute water immersion (in 20 minutes intervals). The amount of the sunscreen actives remaining on the skin post-immersion was then measured via Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR).

Percent Sunscreen Retention



*24.3 µg/cm² was originally applied to the skin



*92.3 µg/cm² was originally applied to the skin



Sunscreen deposition being measured on an arm by ATR-FTIR.

- 0.2% K-100
- 1% K-20W
- 2% Dermacryl 79

Floratech Ingredients: Floraesters K-20W Jojoba and Floraesters K-100 Jojoba

The clinical study was conducted on a panel of 22 healthy men and women ranging from 22 to 60 years of age. One application of each test solution was made, followed by a 15 minute dry-down, prior to water immersion. Dermacryl® is a registered trademark of Indopco, Inc. dba National Starch and Chemical Company. (Clinical Study Trial 09-025 report available upon request.)