"I Am What I Wear!"

The harmony of body, soul and spirit in regard to trends in textiles and function.

Judith Glück Schoeller Technologies AG

• ecorepel[®] • energear[™] • iload[®]



schoeller[®] Switzerland



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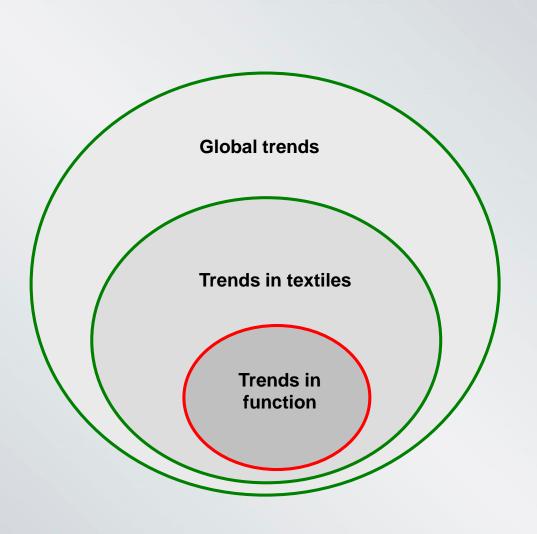






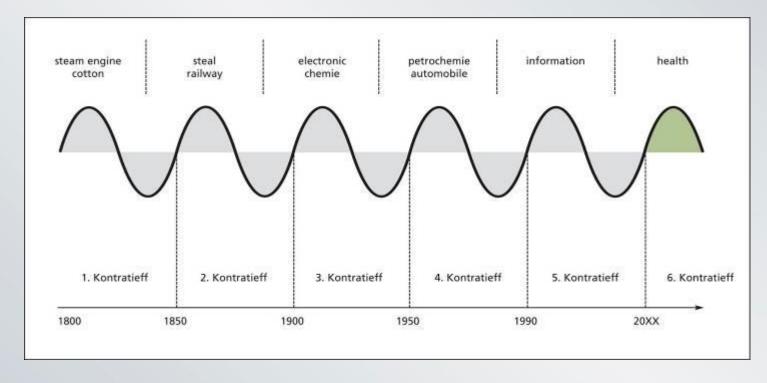
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Megatrend HEALTH

Kontratieff Theory





Megatrend HEALTH

- Trend WELLNESS AND MEDICAL WELLNESS
- Trend HEALTY SPORTS
- Trend NATURAL LIVING
- Trend NATURAL CLOTHING and COSMETICS









Inspired by Nature. Ducks and all water fowl produce an oily secretion that allows their plumage to repel water.



ecorepel[®] is especially developed on the basis of this natural impregnation water repellent function.



Inspired by Nature. Highly functional, odorless high-tech textile finish from Schoeller, offers modern and clean water and mud repellency.





Environmentally friendly

- Free from fluorocarbons
- Biodegradable

 bluesign[®] approved components (greatest possible freedom from harmful substances and greatest resource efficiency)







Added value for the consumer

- Water and mud repellent
- Wash resistant, easy-care, wrinkle-free
- Breathable, durable, soft touch

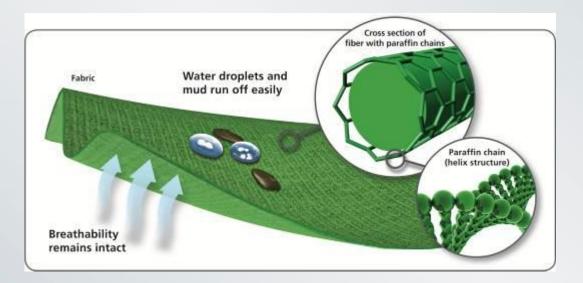
Easy application

Application on all kind of fibers





How does it work?



Paraffin chains wrap themselves as a spiral around the individual fibers, filaments or yarn in a very fine film. This reduces Surface Tension so that water droplets and even mud with significant higher surface tension simply run off.



Environmentally friendly.

- Free of fluorocarbons
- ecorepel® is biodegradable (according to OECD 302 B (80–100 %)).
- Schoeller supports eco certifications such as bluesign® and Oeko-tex®; ecorepel® complies with these strict guidelines.









Feel good with energear[™].

- Every living being constantly emits energy in the form of Far Infrared Rays.
- energear[™] ensures that the energy radiated by the body is reflected.
- This can positively affect the body's energy balance.

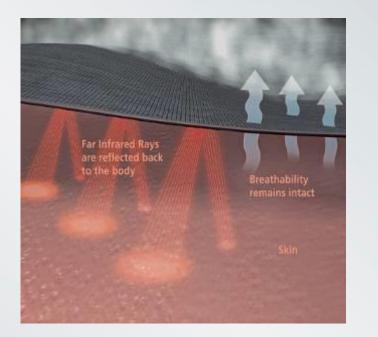






How does it work?

- Schoeller has developped a special titanium-mineral matrix.
- energear[™] allows the body's own energy to be reflected back to it.





What are Far Infrared Rays?

- The sun, certain stones, minerals and living beings all radiate FIRs.
- Far Infrared Rays are a component of Infrared Rays. They can have positive effects on the body's energy balance.
- Knowledge about FIRs and their benefits based on Asian medicine.
- FIRs are used in a variety of beneficial applications worldwide.





Positive effects on the human body.

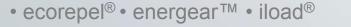
- Increase concentration and general wellbeing
- Enhance performance and improve balance
- Prevents premature fatigue and improves regeneration, even when sleeping





The better the clothing, the higher the performance.

- Clothing systems can influence our mental performance?
- Hohenstein tested different clothing systems used in complex work areas such as hospitals.
- Results: Respondents wearing high quality clothing proved capable of greater mental performance than respondents in disposable wear as shown in both their reaction times and error rate.



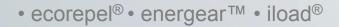


The bean test.

- Tested with and without energear[™], the growth of beans was observed.
- After 8 days the beans with energear[™] (on the left) have grown faster and in greater numbers than those without energear[™].



with energear™/without energear™









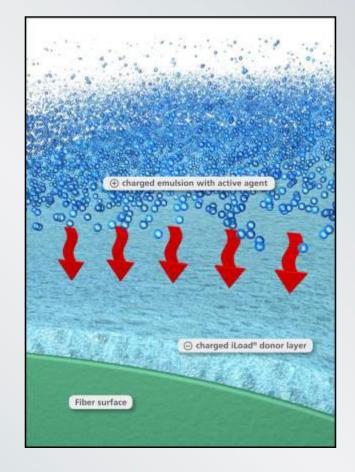
State of the Art.

- Reloadable drug delivery system
- Permanent
- Individually adaptable



How does it work?

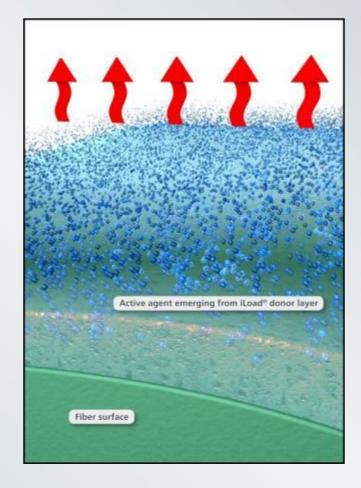
Sorption: Loading with active agent





How does it work?

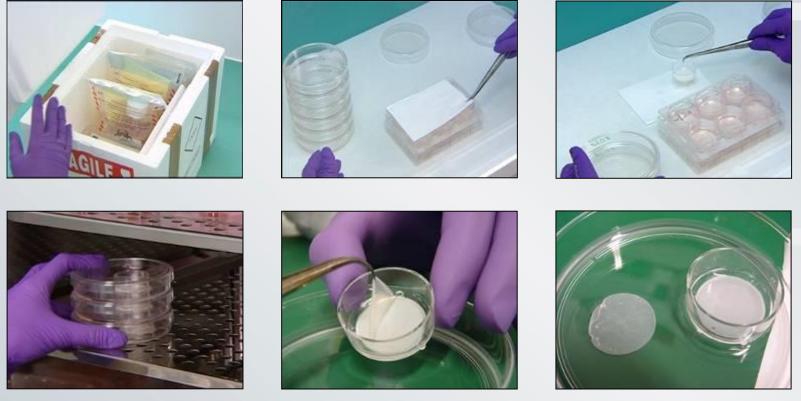
Desorption: Discharging active agent







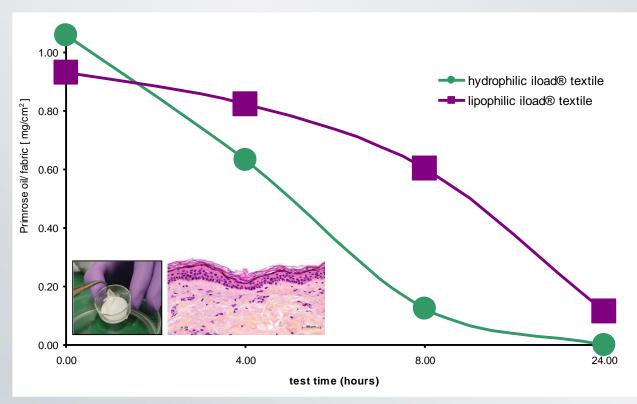
In vitro skin model - Skin-Kit with Reconstructed Human Epidermis (RHE)



L'Oréal Recherche, by courtesy of SkinEthic®



Desorption trial (in vitro skin model) contact pressure 1kPa



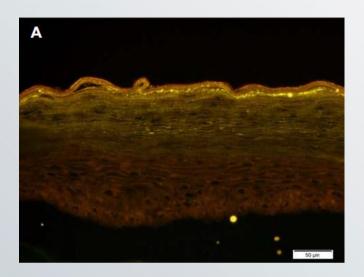
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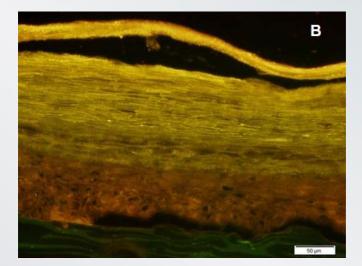
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Human skin model, contact pressure 1 kPa / 4 hours

Unloaded iLoad® textile No evening primrose



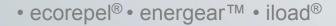
Loaded iLoad® textile Penetration of evening primrose oil into epidermis visible





Schoeller Technologies AG

- Active licensing company since 2000
- Subsidiary of Schoeller Textil AG
- Based Sevelen, Switzerland
- Core competence: successful development and marketing of new, cutting edge textile technologies that are made available to production partners in the form of patents and trademarks.
- Focus on R&D innovation
- Branding as a distinguishing feature of quality
- Schoeller Technologies have received numerous international awards and are featured in premium brands world-wide.







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Thanks for your attention!