

**kreussler**

## TREBON SI



Photo: Jensen

**The new way of laundering**

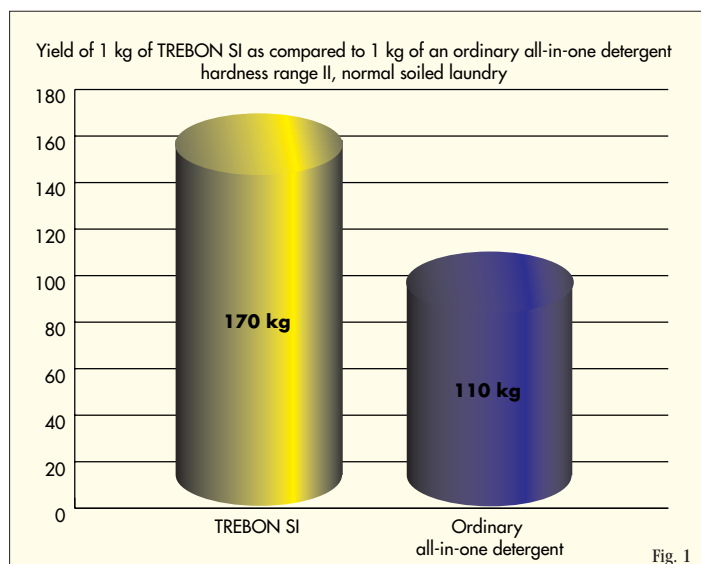
Competent and efficient in textile chemistry and hygiene

## TREBON SI – the new way of laundering

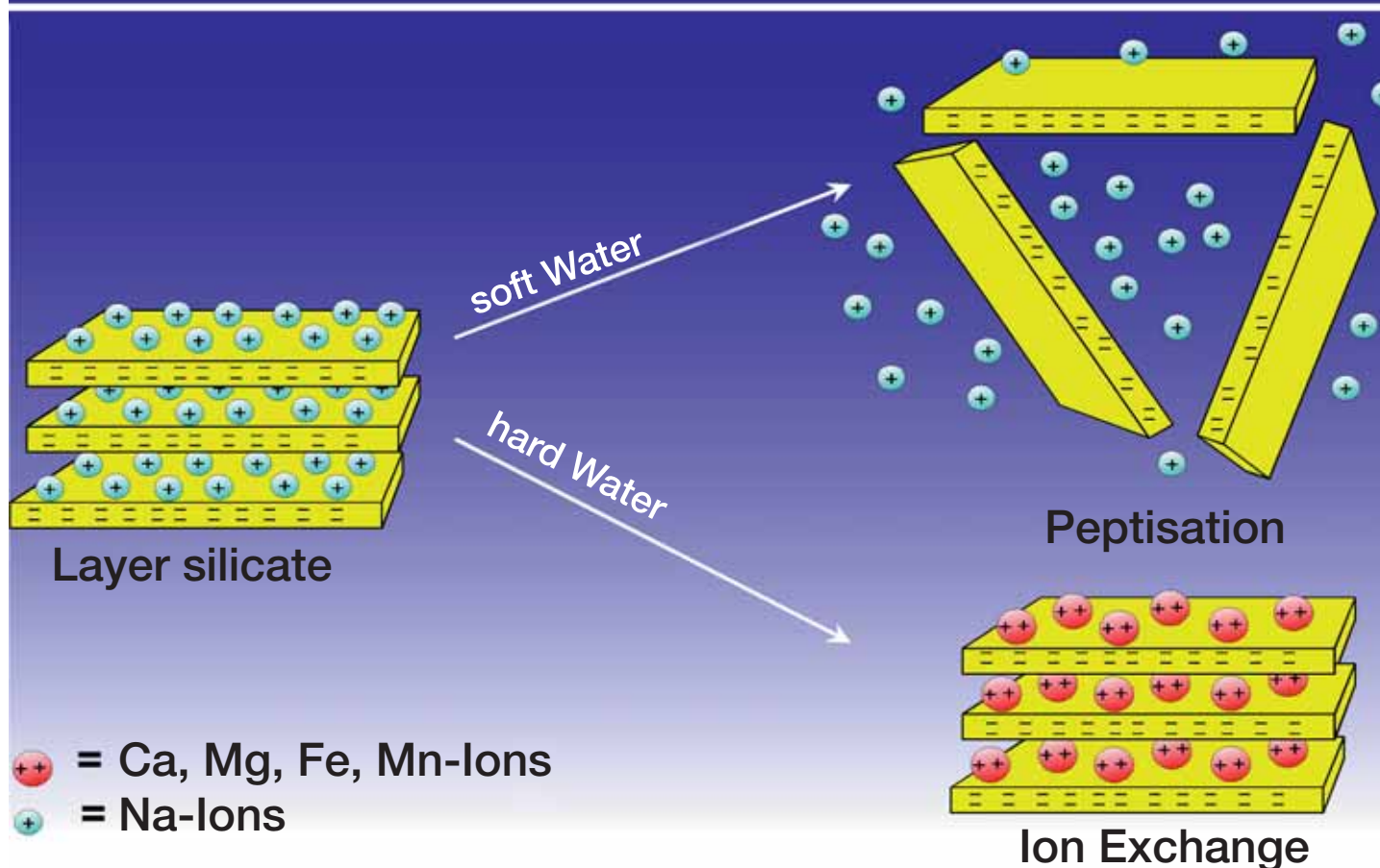
TREBON SI is a highly concentrated all-in-one detergent which is in a class by itself due to its builder conception containing a layer-silicate.

TREBON SI features the ability to simultaneously complex heavy metal ions and water hardeners, to stabilise the pH-value over a broad concentration range and to deliver washing alkalinity. The extremely compact composition of TREBON SI allows for very low dosages and thereby clearly increased washing efficiency per kg (refer to Fig. 1).

The new surfactant-polymer combination used in TREBON SI result in highly efficient pigment and grease removal.



## Multifunctionality of layer silicates



### Mode of action of TREBON SI's builder system:

Water hardness from calcium and magnesium ions interfering with the washing process as well as iron and manganese ions interfering with bleaching are bonded to the layer silicates by ion exchange and are dispersed into the detergent solution. Within the now softened detergent solution, the excess in sheet silicates serves as an alkali supplier for an optimised washing pH-value and delivers the skeleton for a clearly improved washing efficiency by peptization.

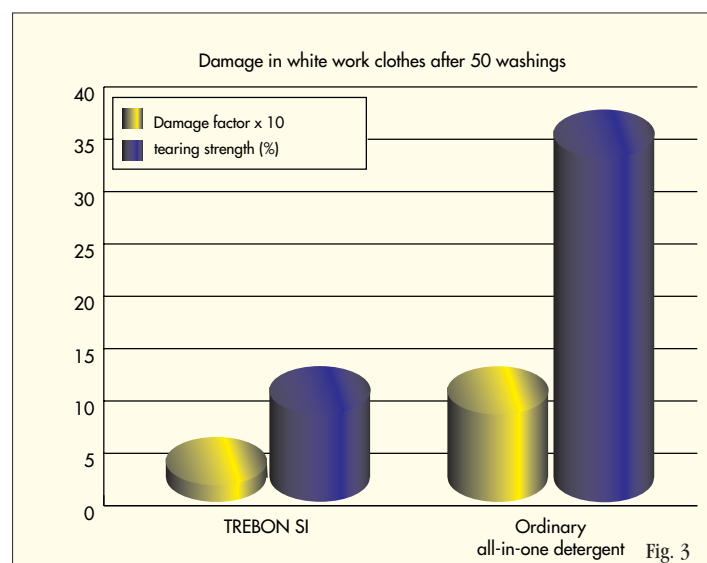
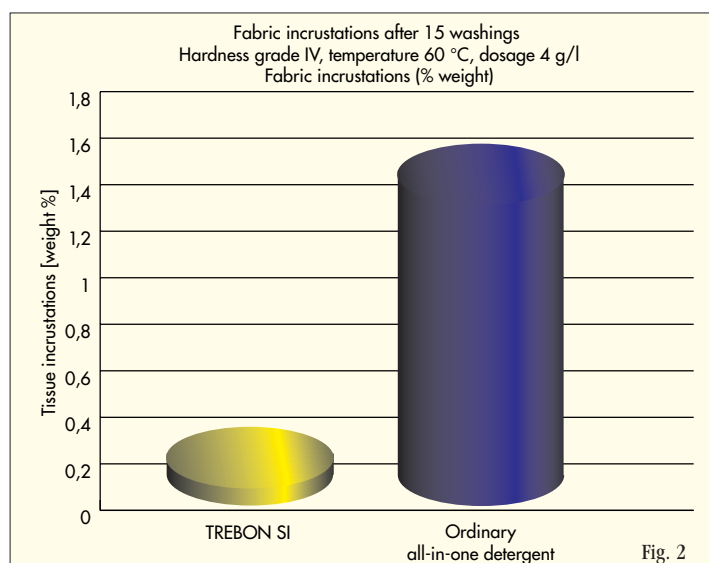
Due to its colloid characteristics, TREBON SI is able to stabilise emulsions, i.e. surfactants are supported in their oil and dirt-suspending power and thereby prevent dirt from being deposited back into the laundry during washing.

TREBON SI stands out for its excellent washing efficiency, good bleaching stability and first-rate whiteness. Both, fabric incrustations and fading to grey are drastically reduced by using TREBON SI (Fig. 2).

The use of TREBON SI ensures a high whiteness of the laundry and increases the lifetime of the textiles by a significantly lower loss of the tearing strength compared to ordinary all-in-one detergents (Fig. 3).

TREBON SI improves the wearing properties of textiles and the finish (mangle run-through) of the laundry. Due to the low incrustation there is no disposition for allergies. TREBON SI has been dermatologically tested and is especially suited for the problem areas hospital and old people's home laundry. TREBON SI fully dissolves and does not leave residues behind on textiles nor in the waste water as compared to e.g. zeoliterous detergents.

Their advantage over phosphatic detergents is the absence of eutrophication (overfertilization) of natural waters. This means another reduction of the environmental impact. In addition, abstention from set-up agents diminishes the salt content in the waste water.



## Chemothermal disinfection

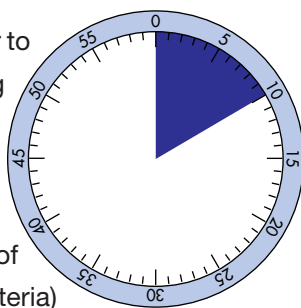
(Type A and B)



**OTTALIN PERACET process** 2ml/litre (0.26 ozfl/gal) OTTALIN PERACET 2g/litre (0.26 oz/gal) TREBON SI

**OTTALIN PA CONC process\*** 0,7ml/litre (0.091 ozfl/gal) OTTALIN PA CONC 1.2g/litre (0.16 oz/gal) TREBON SI

Kreussler is the only manufacturer to offer products that fulfill the listing conditions for the disinfection list of the Robert Koch Institute according to § 18 IfSG (German Federal Law on the Prevention of Infectious Diseases) Type A (bacteria) and B (viruses) for laundry disinfection in washing machines at a reaction time of only 60 °C (140 °F).



### TREBON SI offers the following advantages:

- low dosages
- low washing temperature if using a listed process
- short cycle times
- savings in energy costs
- reduction of the waste-water loading
- savings in handling, transport and storage costs
- environmentally friendly

\* Submitted for registration.

Use biocides safely. Always read the label and product information before use.

## Competent and efficient in textile chemistry and hygiene

Kreussler is a medium-sized German traditional company of the chemical industry that has been family-owned since its foundation in 1912. Today's branches, textile chemistry and pharmacy, have evolved from the original business.

The field of interest for the textile chemistry branch is the commercial textile cleaning in its entirety: dry cleaning, wet cleaning, and industrial washing. The global operation of Kreussler is geared to the making of highly effective products in combination with competent applications engineering.



### Optimal support and consulting

Working closely with you and your team, we will develop a system that ensures productivity and safety for your business. The applied products and procedures will be customized perfectly to suit your company and your needs giving the highest regard to efficiency and safety.

### Absolute cost transparency

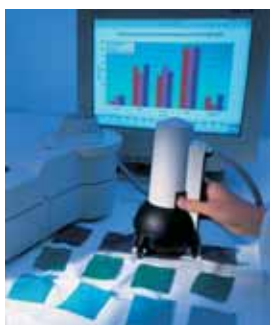
From the offer to products to procedure – the customer can always keep track of the exact costs and his savings.

### Quality

Specially trained employees, the Quality Management System ISO 9001:2000 as well as the Environment Management System DIN-EN 14001 ensure consistent, traceable quality.

### Procedural safety

The procedures developed by Kreussler are reviewed at regu-



lar intervals in order to ensure procedural safety and to achieve optimal results. During the service calls, the parameters of the washing process are checked and optimized.



All changes are documented; they are always traceable and up-to-date. The use and evaluation of standardized test strips ensure the validation of the procedure with regard to safety and quality.

### Dosing equipment

The exact dosage of the products during the procedure constitutes an essential factor for its efficiency.

The dosing equipment of Kreussler is customized for your business and ensures a dosage that harmonizes perfectly with the procedure and the textiles.

### Eco conscious washing

With their highly concentrated products, Kreussler ensures savings in product, water, and

energy consumption. The products have been dermatological tested; they are exactly dosable as well as biodegradable and have been designed according to the most recent legal requirements.

### Reliable service ... by telephone

For ordered goods, a short delivery time is often of essential importance. Emergency orders are processed expediently. Our service department ensures straightforward, smooth processing and delivery of each order whether it is a rush, forward or standard order.

And for absolute emergencies, we have logistic solutions at hand.

### ... personally

Our trained service technicians are on the spot whenever they are needed: quickly and without delay. Depending on the laundry's size and type of textiles, our field representatives compile a periodical service schedule for you to ensure trouble-free operation.