

Liquid concentrate



**The washing system
for best efficiency**

Liquid concentrate – The way

The direct way always ensures best efficiency.

And the dissolving of detergents is always an indirect way. Regardless of whether this is done in the stock solution or only in the washing bath.

ONLY: Up to now, liquid detergents had the disadvantage of insufficient alkalinity or insufficient surfactant performance and no capability of stably integrating optical brighteners. You can't have it all – that was the general opinion up to now. Thanks to DERVAL POWER, this is no longer true!

DERVAL POWER!

DERVAL POWER opens the road to new, highly efficient economization of washing procedures. The combination with DERVAL ENERGY, DERVAL BRIGHT, and OTTALIN PA CONC allows the modular structuring of washing procedures so that optimal conditions can be achieved for each type of laundry.

The 4 powerful products of Kreussler



DERVAL POWER is a liquid high concentrate with the power of a powder detergent. Superb washing power at minimal application quantities make this detergent extremely efficient and economical. Derval POWER has been optimized for cotton and blended fabrics.



DERVAL BRIGHT is a liquid high concentrate with optical brighteners. It has been optimized for the reliable removal of vegetable oils and grease even at 60 °C (140 °F). The wash-power booster is particularly suited for white textiles made of cotton, polyester, and blended fabrics.



DERVAL ENERGY is a highly concentrated wash-power booster. The product removes mineral oils and grease at low temperatures and is therefore particularly gentle on fibers and colours. Particularly recommended for all types of work clothing, personal protective clothing (PPC), and mat cleaning.



OTTALIN PA CONC is a super concentrate for bleaching and disinfecting textiles. The product excels by low application quantities, short reaction times, and low treatment temperatures. The peracetic acid bleach is particularly gentle on the fibers and suited as a bleaching additive for all washing procedures.

Concentrates are more convenient, more favourable, and more environmentally friendly. They help reduce costs for packaging, transport, and storage and therefore reduce the amount of waste that needs to be disposed of.

The direct way always

Washing system for best efficiency

DERVAL POWER has of course been fine-tuned to the wash-power booster Derval ENERGY and Derval BRIGHT so that their full effectiveness is ensured even at 60 °C (140 °F). Furthermore, the certificates for RKI listing confirm that, in combination with OTTALIN PA CONC, the performance requirements for Type A and B are complied with at 60 °C (140 °F) and at a reaction time of 10 minutes.

The Derval POWER washing system in the ECOSAN 3 litre procedure is particularly favourable since here it can prove its benefits: Savings of water, energy, and packaging waste in connection with reliable and economical dosage of the liquid detergents.

Key data:

Total alkalinity	: 4.5 g/l (0.6 oz/gal) 1 % solution	Detergency	: powerful
Caustic alkalinity	: 3.3 g/l (0.44 oz/gal) 1 % solution	Complexing	: reliable
pH value	: 12.8 1 % solution	Optical brightener	: integrated
Density	: 1.44 g/ml (1.49 oz/ozfl)	Application quantity	: 3.5 – 7 ml/kg (0.05 – 0.11 ozfl/lbs)
Viskosität	: 53 mPas (20 °C)		main washing cycle



Fields of application

When used as basic detergent, **DERVAL POWER** is fully sufficient for hotel flatwork.

For disinfection procedures, it is combined with **OTTALIN PA CONC**. Submitted for registration 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 extremely dirty coloured work clothing, the combination with **DERVAL ENERGY** ensures perfectly clean textiles.

For white work clothing from food-processing industries, the product is combined with **DERVAL BRIGHT**.

This fully covers the entire range of requirements in the industrial textile service.

Examples of application quantities for different laundry batches

	Application quantity ml/kg (ozfl/lbs) dry laundry			
	DERVAL POWER	DERVAL ENERGY	DERVAL BRIGHT	OTTALIN PA CONC
Hotel flatwork	4.0 – 6.0 (0.06 – 0.09)	–	0 – 2.0 (0 – 0.03)	2.0 – 4.0 (0.03 – 0.06)
Hospital (disinfecting)	5.0 – 6.0 (0.08 – 0.09)	–	0 – 2.0 (0 – 0.03)	3.5 – 4.0 (0.054 – 0.06)
Work clothing (white)	6.0 – 8.0 (0.09 – 0.12)	–	2.0 – 8.0 (0.03 – 0.12)	3.0 – 6.0 (0.05 – 0.09)
Work clothing (coloured)	6.0 – 8.0 (0.09 – 0.12)	2.0 – 8.0 (0.03 – 0.12)	–	2.0 – 4.0 (0.03 – 0.06)

Preservation of the textile value due to gentle, cost-efficient washing procedures while ensuring superb washing performance is the Kreussler standard.

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

ensures best efficiency

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

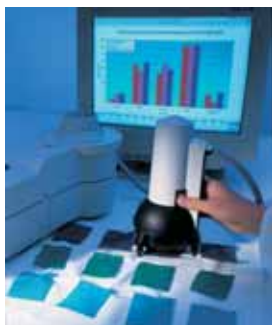
From the offer to products to procedure – the customer can always keep track of the exact costs and his savings.

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.