



# Validated manual cleaning

## Manual cleaning in the pharmaceutical industry

Particularly when it comes to manually cleaning surfaces in contact with the product, the type of cleaner plays an important role. Dismantled small parts are very difficult for staff to clean, for example because of their complex shapes. In manual operations the human factor is always key. A tough process with an optimal cleaner is therefore essential to achieving or maintaining a state of validation.

Borer Chemie AG offers an optimal range of suitable cleaners for manual processes in the cGMP environment.

## Advantages of manual cleaning with deconex®

### Cost benefit

- Free development of effective processes → considerably reduces your workload
- Automatic cleaning → reduces effort and thus cleaning times
- Highly effective, even at low concentrations → reduces cleaner consumption

### Safety

- Easy to rinse off → short rinsing cycles, minimises the risk of carry-over
- Excellent material compatibility → increases lifetime of production equipment
- Strong cleaning power → reduces risk of cross contamination

### Validation

- Specific and validated analytical methods → simple transfer of existing methods
- deconex® products enable tough processes → reduces effect of „human factor“
- Disclosure of formulation → easy determination of acceptance limits

## Choose from three highly effective cleaners

All deconex® products for demanding applications in the pharmaceutical and cosmetics industry have been especially developed on the basis of our customers' requirements and are fully documented.



### Overview of deconex® cleaners for manual processes

	Mildly alkaline For widely effective application with outstanding detaching power	pH-neutral products pH-neutral deconex® cleaners offer excellent material compatibility and develop excellent cleaning power	
	deconex® CIP wash-x	deconex® SURFAX	deconex® CIP seven
<b>Properties</b>	mildly alkaline	phospate-free	surfactant-free
<b>Foaming characteristics</b>	low	moderate	foam-free
<b>Rinsability</b>	excellent	excellent	outstanding
<b>Special</b>	Also suitable for high-pressure cleaners	suitable for intermediate cleaning prior to changing disinfectant	– also suitable for CIP processes – ideal with deconex® CIP surf against stubborn residue
<b>Typical applications</b>	Glass jars in biotechnology, stainless steel mesh screens, rotation brushes, tablet tooling together with deconex® HT 1191	Aluminium and anodised aluminium parts e.g. for formatting parts. deconex® SURFAX is also ideal for cleaning individual parts of filling lines.	
<b>Further product advantages</b>	All the products can also be used in the ultrasonic bath e.g. for cleaning screens, filling cannula or small parts.		
	Specific and validated analytical methods allow you to verify these cleaners at trace concentrations.		
	deconex® manual cleaners are also available in handy small packs. If you prefer larger packs, we can provide the right accessories for easy dispensing.		

Ask us for a product sample or a free CLEAN study. This provides the rationale which meets the requirements of cGMP for manual cleaning processes too.

Benefit from our support and know-how in transferring manual processes to automated procedures.